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PUBLISHED TWICE A MONTH

2404 WEST 7th ST.
LOS ANGELES 57, CALIFORNIA

PETROLEUM PUBLISHERS, INC.
W. C. MONROE—President and Editor
KINZIE MILLER—Vice President
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402-1010 Euclid Bldg., Cleveland 15, Ohio
The McKeown Company—New York Representatives
342 Madison Avenue, New York 17, N. Y.

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• SECOND ISSUE
JUNE, 1956
VOL. 49 • NO. 12
WHOLE NO. 1946

California Oil World is published twice a month at 2404 West 7th St., Los Angeles 57, California. Entered as Second-Class Matter, April 29th, 1944, at the post office at Los Angeles, California, under the Act of March 3, 1879. Subscription price $1 per year in U. S. and possessions, $2 in foreign countries including Canada.

Telephone DUnkirk 2-6218
June 30th, 1956

Exploration From The Air

"Armchair Geologist is no longer a dirty word," said an exhibit at a recent geologists convention. Technologists now are helping to realize the dream of every geologist since Charles Lyell—to get the information without slogging through mud or climbing over rocks; today's geologist can fly over an area with modern electronic and photographic means and then study the results in a comfortable office. Of course, the ultimate hasn't yet been realized; there is still no substitute for a good deal of leg work, and the best exploration tool is still the drill, but to an increasing extent each year, the geologist is learning to rely upon information furnished him by the photo interpreter and the airborne geophysicist.

Study of aerial photographs for geological purposes was the first airborne tool to be used. As early as 1924 California oil companies were ordering and studying aerial photographs of prospective areas. Down through the years, as interpretation techniques improved, exploration departments came to accept photography as an essential adjunct of any exploration program. They found it not only more convenient but less expensive for the amount of information obtainable, and they found as the science progressed that aerial photos contained more information than they originally believed possible.

The years since World War II have seen a great rise in the number of consultants specializing in photo interpretation, as well as the number of geologists who are becoming trained in photo interpretation as part of the standard geological training course in many universities.

It wasn't long before other departments of major oil companies discovered uses for the aerial photographs, too. Now they are used for delineating land ownership; for studies of accessibility and availability of water for drilling purposes; for assistance to ground exploration men in penetrating difficult areas; for engineering studies when access roads and pipe lines have to be built; and for making topographic

A vertical aerial photograph of the Buttonwillow gas field. The scale of the photograph is 1": 1 mile, and the edge of the print containing the date of photography, and other identifying numbers, 20410, 2-125, is the north edge of the print. The geologic structure is clearly evident and the photo has been selected to show how photo-geology is used in California.

contour maps when existing government coverage is inadequate or entirely lacking.

The more spectacular of the airborne exploration techniques has been the application of electronic geophysical means to airborne work. Of these, the earliest and most important from the oil industry's standpoint has been the airborne magnetometer. Like aerial photography, the technique of airborne magnetometry was accelerated by the needs of a world war. In the case of the magnetometer, it was World War II which had developed this sensitive device for detecting submarines. The basic principles had actually been worked out prior to the war by Gulf Research and Development Company, who were about to put it into operation when the war broke out and the device was turned over to the Navy. With the return of peace, Gulf retained its leadership, and the Gulf magnetometer to this day is acknowledged to be the best in the field.

The airborne magnetometer is essentially a device for detecting minute changes in the earth's magnetic field, as the aircraft flies over its surface. The fact that the earth is a huge magnet has of course been known for many centuries and the influence on the compass needle of large bodies of iron ore has also been known for well over a hundred years. It was in the twentieth century, however, that the earliest geophysicist realized that almost all volcanic rocks will distort the earth's magnetic field to some extent and that a sensitive instrument carried on the surface will measure those distortions, thereby giving some indication of the underlying structures. The airborne magnetometer is merely an extension of this principle although the electronic improvements that were necessary to put the traditional ground magnetometer into an aircraft were drastic. The modern magnetometer aircraft flies over an area to be surveyed, in lines that are perhaps one mile apart, until the area is completely covered—very much like mowing a lawn. Then a magnetic "contour" map can be made showing the distortions of the earth's magnetic field in the survey area. Interpretative techniques have been developed which make it possible to make fairly close estimates of basement depth and can give a good indication of underlying structure.

A whole series of satellite sciences had to be developed for the purpose of positioning the aircraft in space. Horizontal positioning is usually achieved by special techniques embodying aerial photography but for offshore surveys the airborne geophysicist had to go to radar devices such as Shoran for positioning their aircraft. Barometric and radar altimeters provide vertical positioning control.

Most of the major oil provinces of California have been covered by the airborne magnetometer, and "armchair geologists" of most of the majors have found the magnetometer maps valuable in laying out seismograph lines, checking basement depths against well logs and studying structures. Offshore surveys have proved especially useful because of the difficulty of obtaining other types of information.

Oil prospecting by means of the scintillation counter or radiation detector is a subject of cool appraisal and hot discussions in the California oil industry. The scintillation counter, normally a tool for uranium prospecting, is said—by some—to be able to indicate the presence of oil directly, the first geophysical tool to do so.

The theory says that the presence of oil will inhibit the upward seepage of radon emanations and will therefore show up as a low on an airborne scintillator profile, possibly flanked by small highs to be found around the edge of the pool. The theory comes from reputable sources and there is solid experimental evidence both to confirm and to refute it. A number of oil companies and geophysical contractors are conducting hush-hush experiments on the matter but nobody is saying very much for publication at this time.

A third tool of airborne geophysics has heretofore been primarily of use in mining. This is electromagnetics or EM. In principle EM operates somewhat like the wartime mine detector, creating an electromagnetic field by means of a coil at the aircraft and inducing thereby a secondary field in the ground which is detected by a second coil carried aloft. The nature of the conductivity in the ground will determine the characteristics of the second signal. So far, EM's greatest success has been in detecting ore bodies, especially in Canada, but oilmen, always interested in new geophysical techniques, are study-

Fairchild aircraft in flight, towing the magnetometer "bird." The sensitive detecting element of the magnetometer is housed in this "bird," and is towed at the end of 100 feet of cable to keep it away from the magnetic effects of the ship's engines.

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ing the possible applications to petroleum.

The oil industry hasn't been able to attain the ultimate of the dowser from Maine who was so good he could use his stick over a map of the area to be surveyed and pinpoint the well location without ever leaving his home. There is still a good deal of driving, hiking, climbing, and sweating to do in the field, but the airplane is definitely far more than just a means of getting executives to remote places fast. Aerial photography and airborne geophysics today are as accepted as the Brunton compass or the seismograph, and as essential as the topographic map.

Prolific Vedder Oil Sand Celebrates 30th Birthday

The Vedder sand, which is a source of prolific yield in many parts of San Joaquin Valley, has celebrated its 30th birthday. It was first found productive in early May of 1926 by a well drilled by the Shell Oil Company on a lease of fee ground owned by Dwight G. and the late Richard D. Vedder in Section 9-27s-28e at Mount Poso, Kern County.

Up until December 31, 1955, Section 9 was credited with pouring out 29,028,000 barrels of crude oil since the discovery was made. The section currently contains 80 wells and last April they accounted for 77,450 barrels of oil.

The Vedder discovery was the sequel to a general combination of vision, keen discernment and sheer pluck and not the result of fortuity. Dwight Vedder was first attracted to the area because of outcropping oil sand in the low, rolling Poso Hills.

Believing he had sighted a possible and important producing area, Dwight discussed the matter with his brother and they agreed that they might well be on the way to fame and fortune if they could purchase Poso land.

However, they still were young men and they were not in the position at that time to lay out the cash necessary to reach their goal. It took only their sterling character and reputation to shortly solve the problem and they borrowed $50,000 to buy in 1920 Section 9 in fee from Louis Olcese and J. J. Mack.

Capital Lack

Lack of capital worked against the brothers developing the property themselves and they leased to Union Oil Company, which paid $64,000 for two years' rental. Union, however, gave up the lease because of the growing pressure of its field operations in Southern California.

When the Mount Poso discovery was scored, Dwight was on the Southern Pacific Limited on the way to New Orleans. The reaction of Richard, who was watching the well, to the strike is best described by the words of a telegram which he sent to Dwight on the train. So read the wire:

"Get off train, about face. Well making 250 barrels of emulsified oil. Twelve feet of saturated sand open. Fluid level 950 feet. Depth of well 1922. Lots of gas. Sixty feet of perforated pipe in hole. Easily a 50 barrel well. Come back quick. We have ours. Am underestimating Congratulations. Hurry home. Answer immediately upon receipt."

With this news at hand young Vedder left the train at Houston and hurried back to California to join in the excitement of the Mount Poso discovery.

Operators, which drilled round-and-about Mount Poso prior to the actual find, included the California Mexican Petroleum Corporation. A well was taken down to 635 feet in the southeast quarter of Section 30. Due to some reason operations were stopped at that depth and the acreage quitclaimed.

Earlier Wildcats

Among other wildcat failures previous to the discovery was a project put down near Woody road on Section 10-27s-28e. Tar sand was picked up at 720 feet and then when a bit was broken the venture went into discard. It was sponsored by Courtland Lawrence and Associates, holder of portions of six different sections.

The Producers' Syndicate, T. A. Piper, Modoc Petroleum Corporation and John K. Porter also were identified with drilling prior to 1926 in the area.

Both Dwight and Richard Vedder were practical oil men. The former started with Standard as a young man in the company's geological department and occupied increasingly important posts with California's largest petrolem organization. Richard also held key positions with Standard at the same time and was field superintendent for the company in the Kern River division.

Dwight was graduated from the University of California at Berkeley, College of Mining, Engineering and Geology. He graduated in 1915 and shortly thereafter joined Associated Oil Company and worked for a time in the Coalinga field. He was employed as a rodman in the survey of the pipeline between Coalinga and McKittrick. Richard's education was drawn along similar lines.

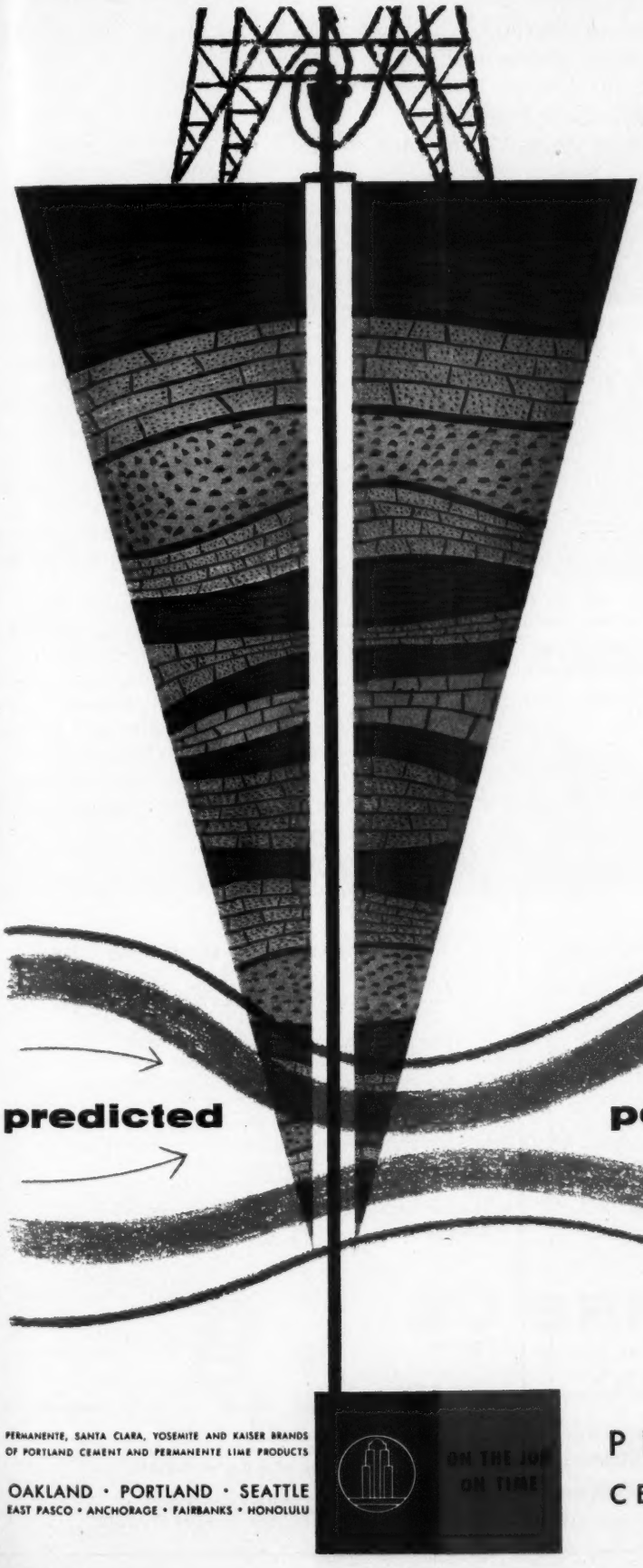
Lea Joins Vedders

O. V. Lea, for 10 years in the Standard geological department, accepted a position with the Vedder brothers not long after the Mount Poso strike. He was appointed office manager and was located in an expansive suite of rooms in the Hotel Southern, Bakersfield.

History reveals that in the fall of 1926 operators busy in the general Mount Poso district included General Petroleum, Barnsdall Oil, Superior Oil, Union Oil, Chanslor-Canfield Midway Oil, John K. Porter, California Petroleum, George F. Getty, Marland Oil, Petroleum Exploration, Schwartz Syndicate, Wilshire Oil, Buckner Brothers, Fortuna Oil, Shell Oil and the Vedder brothers.

Holdings Extensive

Dwight Vedder's holdings extend elsewhere than to oil. He owns thousands of acres of land around Winnemucca in Nevada, where alfalfa and other crops flourish in great amounts. Near beautiful Carpinteria along the



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California Coast, the Vedder banner flies over one of the largest and most beautiful ranches in the state.

He has a three-quarter interest in the Raisin City North Extension field in Fresno County, which is being steadily developed by Federal Oil Company as operator. A half-dozen wells already completed there are drawing from the Miocene or Eocene.

Six lush producing zones have been recorded and a successful extension of the sector in recent months has increased the importance of that part of Fresno County and added numerous new locations to the Vedder-Federal drilling campaign.

Vedder was the first to recognize chances of worthwhile oil production at Kern Bluff. Along with E. A. Parkford, he undertook the drilling of more than 25 wells on a 80-acre Kern Bluff lease, which are putting out oil from the Kern Series.

Los Angeles offices are maintained at 811 West 7th street. The 12-story building, formerly known as the Fine Arts Building, was purchased in April of 1933 by a group headed by Vedder Petroleum Corporation, and the California Western Oil Corporation, headed by Russell Havenstrite.

Republic Supply Holds Company Sales Conference

R. W. Johnson, Executive Vice President of The Republic Supply Company of California, announces that a conference of 19 company executives concerned with Sales Management was held at Rancho Santa Fe, California, June 1st and 2nd.

The purpose of the meeting was to discuss sales objectives with special emphasis on sales control methods and records so that the five major sales divisions of the company might all operate within the same general framework of company policy.

The Manager and Assistant Managers of each division outlined their control methods during the daytime sessions, and the problems generated here were analyzed in evening sessions with the objective of coordination and unification of effort.

Advertising, forecasting, machinery sales, sales compensation, catalog and general company planning were other subjects discussed.

Johnson states that by vigorously pursuing the policy of unifying objectives in all divisions the company will be in an even better position to service Western Industry.

Standard Oil Company of California, which spent $347,000,000 on capital outlays in 1955, plans to top that figure this year with capital expenditures of more than $350,000,000, with $260,000,000 scheduled for exploration and development. Ted Petersen, Standard president, let this be known at a press interview in New York City.

"Your husband charges that you deceived him," the judge said solemnly to the young wife.

"On the contrary, your honor, he deceived me. He said he was leaving town, and he didn't."

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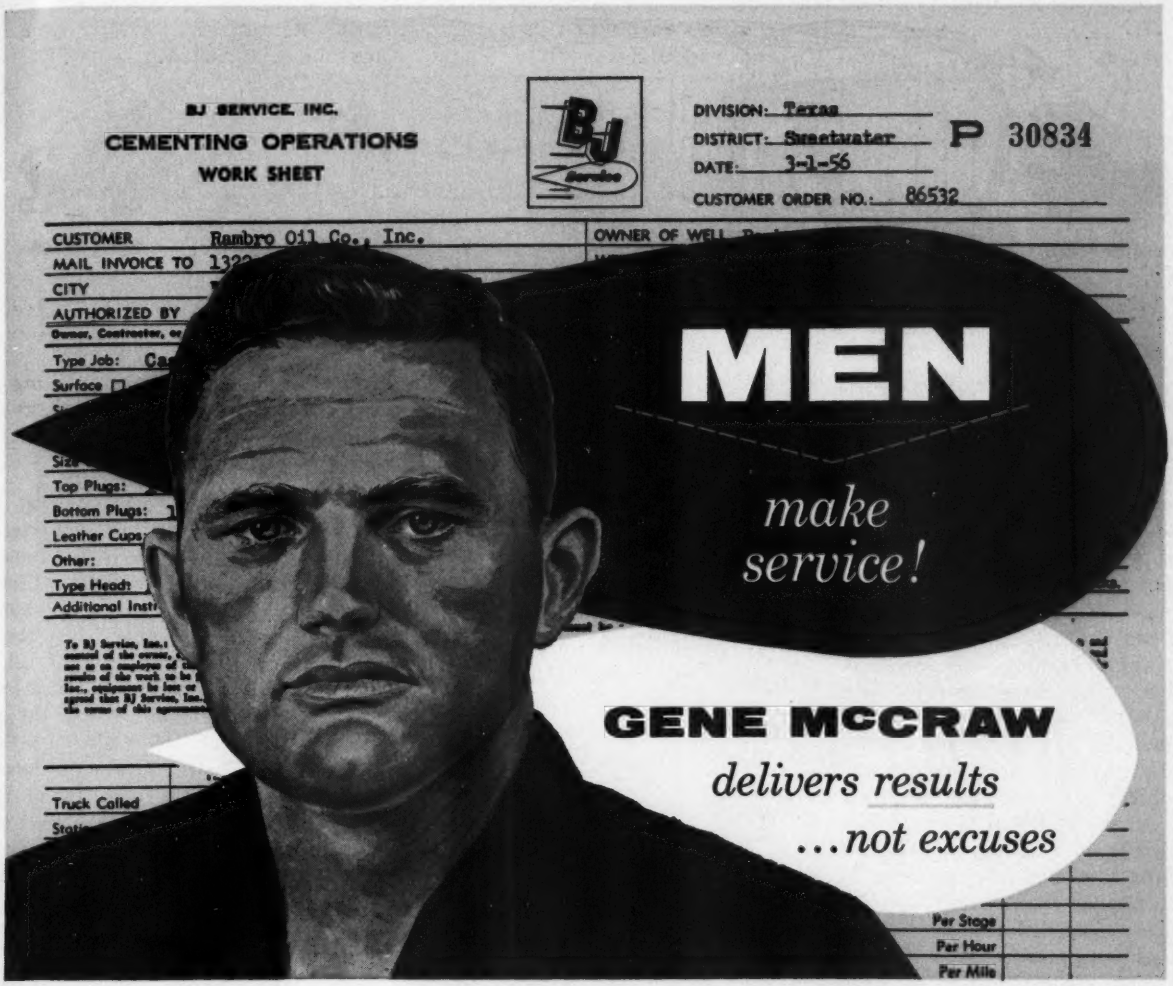

If necessity is the mother of invention then the oil patch is father of ingenuity... and Gene McCraw is blood kin to both. For this young veteran of oil well cementing has a happy knack of knocking off the jobs "too tough to be done."

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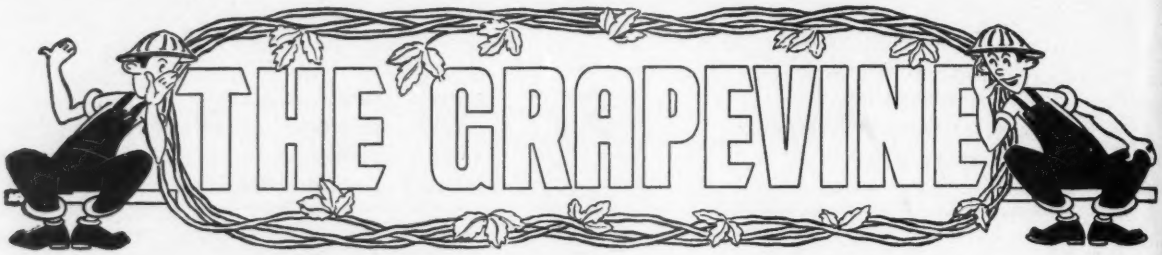

By RICHARD SNEDDON

Ben Hake Goes to Bolivia

We have just had word that Ben Hake who has been here for the past three years more or less, functioning as special advisor to the Vice President of Western Gulf on exploration matters, has been appointed general manager of the Bolivian Gulf Oil Company. After a short briefing trip to New York and Pittsburgh he will proceed to Cochabamba, Bolivia and get operations started on an extensive concession which Gulf recently acquired from the Bolivian Government. Ben is an alumnus of Stanford with a wealth of experience in all phases of exploration and in many parts of the world. He also has a pretentious army record that goes back to the first world war, for which in 1946 he was awarded the U. S. Army Legion of Merit. He is a Fellow of the Geological Society of America, and besides being active in all sorts of industry associations is a fine after-dinner speaker.

Extra Curricular Information

On several occasions we have had the pleasure of a chat with Ben on various extraneous subjects and we have found him an excellent conversationalist. He is obviously a keen observer as most geologists are, with a hefty reservoir of entertaining and enlightening data that he has gathered here and there in his travels. He has, indeed, all the attributes and qualities of a top administrator and is more than adequately equipped for the important post that he is about to take over. So, bon voyage, Ben, and we'll hope for a visit on your first furlough!

Jim McNeill Leaves for Iran

Another of our good friends who is just starting out on what should be an interesting and exciting adventure is Jim McNeill who has accepted a position with the Consortium in Iran as chief petroleum engineer. This is a real man-size job but we look for Jim to take it pretty much in stride. Despite his youthful appearance he has really been around. He was graduated from USC with a degree in petroleum engineering and was one of our co-workers when we were both strutting our stuff for Union Oil Company's field department. He wound up there as assistant to the vice president and has since tackled some pretty formidable assignments. Just prior to his acceptance of the Iranian post he was associated with the Thornbury-Geis enterprises. He is widely known and well regarded in the California and Mid Continent areas. Jim left on June 14 for Teheran where he will be headquartered and last we heard, Edie (Mrs. McNeill) and their three lovely daughters, Peggy, Pat, and Katie, were preparing to take off for Switzerland, where the girls hope to enroll in the International School at Geneva. Edie, by the way, was graduated from Stanford with a master's in education and who knows she may end up with a professorship in the International temple of learning, teaching her own daughters. Anyway, we sure hate to see these nice people leave but, on the other hand, we know they are going to have a wonderful experience, and with their countless friends we join in wishing them all they could wish themselves.

Farewell Party

It might be mentioned that a short time prior to Jim's departure we attended a snug little dinner gathering at the University Club, at which he was the guest of honor. Among those who came to pay their respects and swear eternal allegiance no matter how far away Jim might be, were C. P. "Doc" Watson, the former Seaboard high executive, now independent producer, who has been immortalized by Conan Doyle in his famed Sherlock Holmes whodunit series; Dud Tower, Union Oil Company veep, who would undoubtedly have been the speaker of the evening if he could have found a compatible audience; Joe Stephens, Kern Oil Company executive, a heckler with a rare collection of barbs and a splendid aim; Kinzie Miller, publisher of these notes and a much feared tile tosser around the petroleum circuit; and Jim Kelley, the Hillman-Kelley scion, who became famous during the evening for repeated double plays, Kelley to Sargent to Kelley.

Others Participating

Also present were Dave Carnahan, the affable vice president of Drillex, world traveler, and a good candidate for the Calvert "gentlemen of distinction" series; Pert Sargent, the Sargent Engineering veep, who fielded a succession of wild throws throughout the evening without a single error; Tommy Tomlinson, the Union Oil Company landman and limerick dispenser, down from Calgary for refueling; Fred Hanson and Fred Tanner, the gold dust

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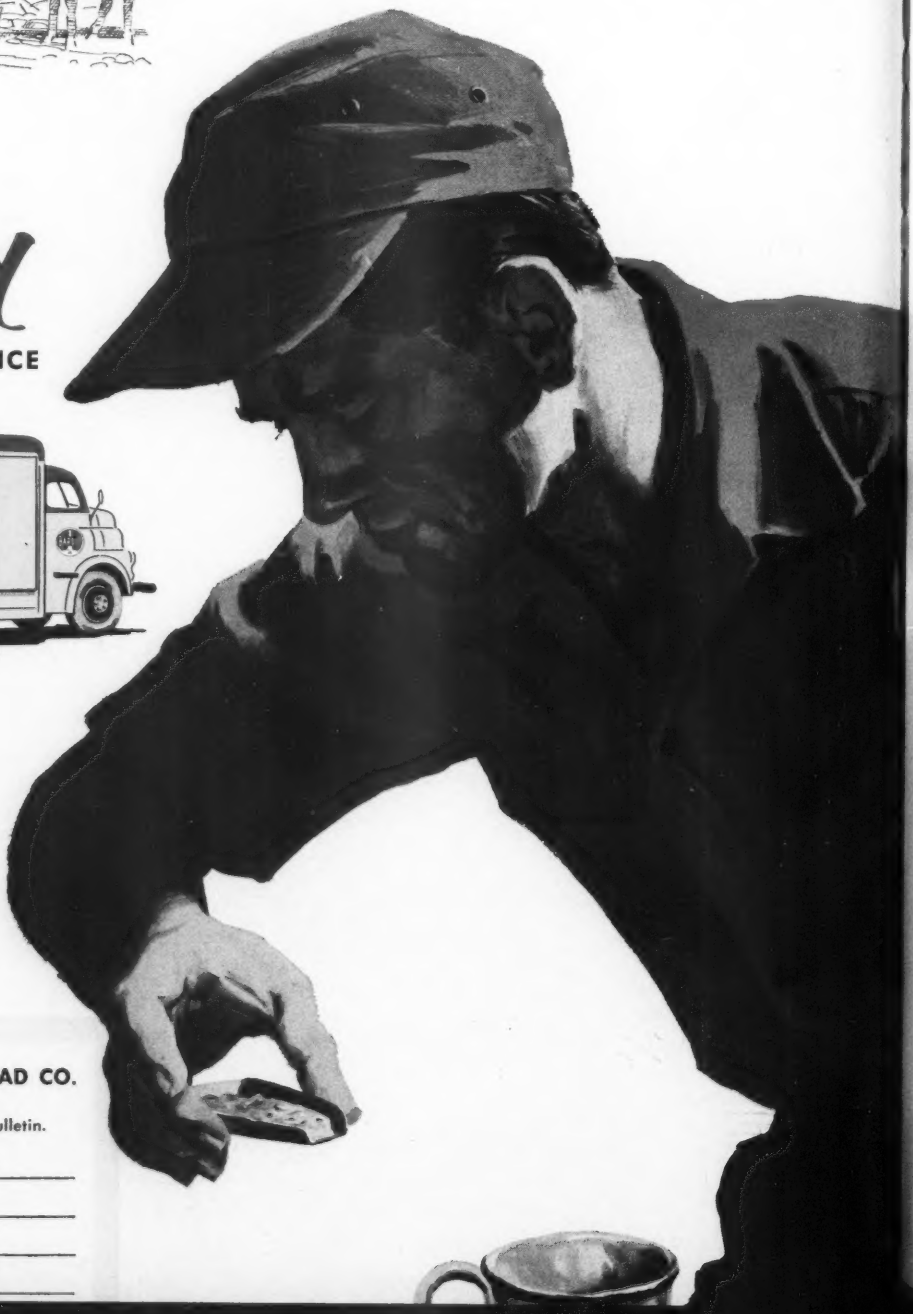

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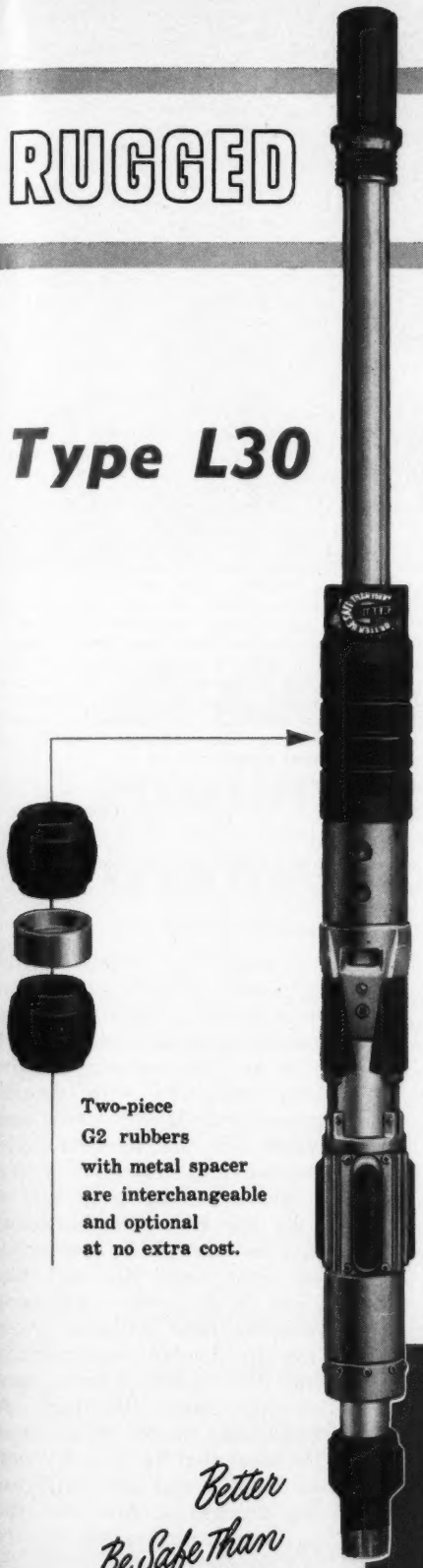

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THE KINGMAN BROTHERS

Two lads who have cut quite a swath in Western oil circles over the past 20 years or so, the Kingman brothers, Doug and Kenny, respectively at the moment, manager of joint venture operations for General Petroleum Corporation, and vice president of Union Oil Company in charge of refining. In many respects the boys have had parallel careers. They were both born in Riverside, California; were both graduated from Caltech, Kenny with a chemical engineering background, and Doug with a master's in mechanical engineering; both decided to seek their fortunes in the oil industry, Doug via the field route, Kenny via the refinery; and both although still comparatively young, have weathered a lot of rugged practical experience and are now in top administrative jobs.

Douglas George Kingman, to give him his full moniker, has been with the House of the Aviating Equus for about 24 years and has occupied a series of interesting positions in the production department. Prior to the assumption of his present responsibilities, he was San Joaquin Valley superintendent at Taft and was active in both industry and civic affairs there. He was chairman of the Valley section of the American Mining Institute; chairman of the local API committee on production practices; a member of the Taft school board and Chamber of Commerce; and vice president of the Rotary Club of Taft. At the present time he is officiating competently as treasurer of the Petroleum Production Pioneers.

He now resides in Pasadena with his wife and five children but has a ranch at Fallbrook to which he repairs on occasional weekends for a rest and then works harder than ever. One of his hobbies is riding about the ranch on horseback, taking potshots at overzealous gophers, discussing current events with the hired hands, and just generally contemplating the future spread of the Kingman empire. He also enjoys sitting on the bank of a mountain stream trying to land a speckled trout of the right dimensions to fit his frying pan.

Doug Kenny

Kenneth Edward Kingman really began his oil career with Union Oil Company in 1929 as a junior chemist in the research department at Wilmington. In subsequent years he functioned successively and successfully as development engineer and assistant superintendent of operations at the Los Angeles refinery. Then he was transferred to Oleum as assistant superintendent of distillation and was superintendent of compound and shipping when he was returned to the Los Angeles refinery as manager in 1945. Five years later he was named manager of manufacturing in charge of all the Company's refining operations. His elevation to a vice presidency and his election as a director came in April of this year.

While at the Wilmington plant, Kenny made his home on the Palos Verdes Estates where he, too, was a school board member, a trustee in fact of the Palos Verdes school district, and a trustee of the Neighborly Church. He now makes his home in Pasadena, has three children, two of whom are married, and when free to do so finds his diversion in the odd game of golf. The word "odd" is used here with full understanding of its meaning for there are few golfers who play any other kind of a game. He, like Doug, is also a Waltonian of no mean caliber and has fished most of the California streams in a futile effort to catch a bigger one than the one that got away.

Temperamentally, the Kingman boys are very similar. They are both modest, unassuming chaps, as smart people usually are, and besides being top hands in their particular industrial assignments, seem to take a genuine interest in the civic affairs of their communities. By all measures, indeed, they are worthwhile citizens and a real credit to the petroleum industry of which they have become decidedly substantial members.

---

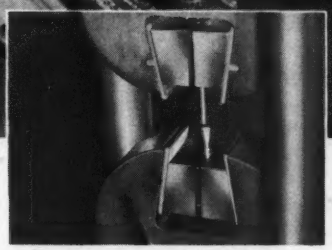
twins from the California Bank; Deb Ward, McGaffey-Taylor higher-up, who has a ready laugh that for some reason always reminds us of Bart Gillespie; E. B. Hall, prexy of the firm that carries his name, and unquestionably one of the most tenacious toastmasters in these parts; Tal Ledbetter, Union Oil Company superintendent who runs platform interference for Dud Tower and also runs a motor cycle, at least as far as Pico, almost; and winding up this blaze of petroleum brass in no uncertain manner, Dave Day, the Richfield vice president and industry poet laureate whose composition on the McNeill departure and return was a mighty touching bit of iambic petrameter or something. During the evening each of these petrolic biggies in turn made declamations of undying affection for the McNeills unto the third and fourth generation and wished them "bon fortune" in their Iranian sojourn.

Jim Conlon Acclaimed

From our overseas representative, James V. Moneybags MacDonald, comes a billetdoux describing the amazing accomplishments of that ordinarily ultra modest chap, Jim Conlon. It appears that Jim entered an international trap shoot in Barcelona, Spain, and not only shot down 34 live pigeons in rapid succession with 34 shots (contestants are allowed two shots per bird), but also shot rings around 156 of the world's best performers in this racket. In consequence of his showing, Jim is now proud proprietor of the Terry Trophy, emblematic of the world's championship or something equally terrific. The trophy is described by our reporter as "bigger than a snipe boat" and there is some possibility that he and the champ may sail back home in it. The folks over there made a great to do about the Conlon performance and besides being dined and feted all over the place, Jim was the subject of a full page story in the Barcelona Bulletin or its equivalent. The Terry Trophy has been won every year in the last five by Spaniards and has never before been won by an American. So to the plaudits of the European press we add our own paean of praise, and to our foreign correspondent, Jim MacDonald, congratulations on the scoop!

With the Peripatetics

A note from Verne King, the consulting chap, at Capitan, New Mexico, indicates that he will be there for another month or so and those whom he regularly supplies with domino money will have to look elsewhere for the moment. The Capitan area, incidentally was a favorite stomping ground of Billy the Kid. The particular pigeons that Billy perforated on sight were the sort that gloat in gin rummy games or proclaim their scientific know-how in domino undertakings, and how could anyone resist an opportunity like that. Al Stevenson sends word from Portugal that he is on his way to Madrid and the bullfights. We thought at first that this one was from Frankie Sinatra, but on closer observation discovered that it was from Sintra, Portugal. Also have a short report from Tom Ashe and Lee



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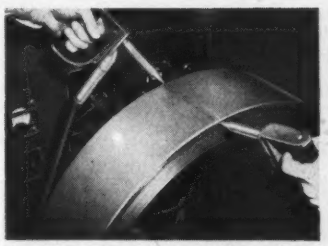

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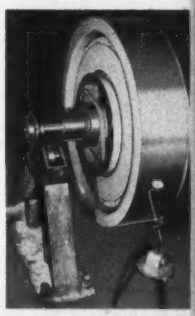

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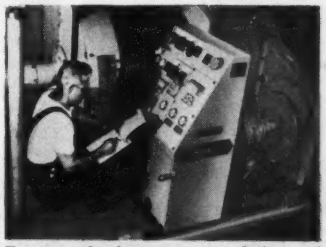

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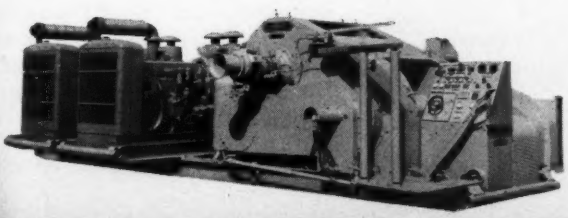

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Wardle, the Globe Tools globe trotters, who have been foraging about Venezuela, Trinidad, Colombia, and other South American countries. Their card was from Bogota and shows the boys in front of the Capitolio Nacional. In spite of Lee's wide shoulders, a considerable part of the building was visible in the background.

News of the Waltonians

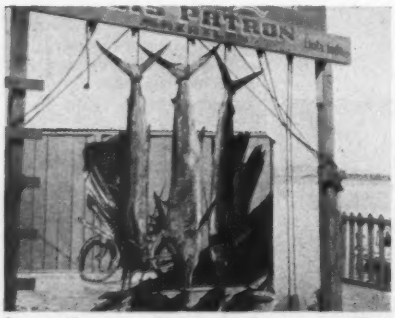
Harry Dahl is just back from a fishing expedition on the Rogue River at Gold Beach, Oregon, the spot that was made famous by Zane Grey. Harry reports an excellent catch of Chinook salmon, one at least weighing 24 lbs., and he brought back a couple of monogrammed cans of smoked and kippered fish to prove that he wasn't bluffing. He used his own electric reel in this enterprise and was able to read the Saturday Evening Post while he was bringing even the biggest ones to gaff. For anyone who doesn't want too much exercise while hauling in these oversize minnows, this reel of Harry's is about the ultimate in piscatorial automation. We predict, in fact, that if he keeps on improving on the thing, it will soon be possible to catch a marlin without leaving home.

More of the Same

Down Mazatlan way, the folks are badly worried about the exploits of a trio of petrolic fishermen, Pete Gardett, Harold Rowland, and Mel Sheppard, who made a recent trip down there and so depleted the local waters of sailfish and marlin that the place is in danger of losing its main tourist attraction. A picture of the boys, taken in the Belmar Hotel at Sinoloa, where they repaired for a gloating session after the first day's weigh-in shows an indignant sailfish even screaming its indignation. A minor part of their catch, two sailfish and a marlin, are shown in a second photo, hanging dejectedly from the yardarm and obviously feeling pretty silly about the whole thing. These were used as bait to catch some really big ones on the second day.

The Sports Page

Sam Grinsfelder and Rollin Eckis are current domino champions of the Petroleum Club. They won the finals of the 1956 tournament from Dan Gilliland and Mel Hill in a terrific five game match that was closely contested every inch of the way. There were only five points difference in their total scores when the battle was over. This contest was productive of some of the neatest drawing ever seen in the Club and the pegging was positively beyond reproach. An interesting sidelight was that Dan beat his dad in the semi finals, since when we have noticed that Joe has been strangely quiet. The other semi-finalists were O. K. Fuller, Jr. of Humble, and Dean Walling, the mathematical genius from Western Geophysical. We ourself have established an outstanding record in the domino field, having entered every Club tournament since they began in 1948, without ever getting beyond the first round. This demonstrates the importance of early training. When a boy we spent most of our spare time playing a sort of reverse checker game, known as "first off the board."



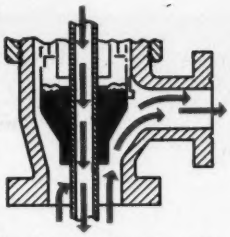
A small part of the catch—two sailfish and a marlin.

Peter Gardett, Harold Rowland, and Mel Sheppard at the Belmar Bar at Sinoloa.

People in the News

Congratulations to Frank "Dutch" Lortscher, the Signal Oil & Gas director, who was recently given the Southwestern Purchasing Agent's award for outstanding leadership in the profession. The same to Bob Dalbeck who has been made an assistant comptroller at Union Oil Company; and Russ Sherman who has been elevated to the presidency of Oceanic Oil Company! A recent visitor in Los Angeles was Stan Natcher from London, England. Stan stopped by briefly to say hello to his Petroleum Club friends. It's good to see John Grant, the Loffland Brothers veep, back on the job again and looking in top shape after a major operation. And we hear that Julius Lehman is also recovering nicely from an ulcer operation. Paul Terry and the Capital Company have moved to lush new quarters at 628 West 6th Street. Another visitor in Los Angeles a short time ago was Ross Lyons, formerly of Kobe, Inc., now president of Corrosion Engineering Corporation of Wichita Falls, Texas. We were pleased, too, to catch up at last with Jim Bayliss, drilling consultant, Brisbane, Australia. We have been corresponding with Jim for some time, and we found him to be a very entertaining gentleman, which we had already guessed from the character of his letters. Milt Loy has just joined the alumni of the Harvard School of Business Administration, and will probably in future play all his golf bedecked in a red blazer. We were distressed, on the other hand, to learn of the passing in recent weeks of three of our very good friends, Mort Higgs, former vice president of Lane-Wells Company; Hill Rupprecht, formerly of Seaboard Oil Company; and Reid Grainger, the Byron-Jackson manager in Ventura. To the families and friends of these we tender our very sincere sympathy.

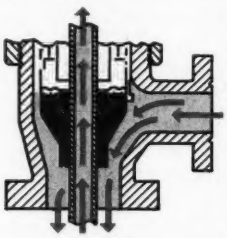
DRILLING WITH AIR OR GAS?



There is a steadily growing use of air or natural gas to replace the mud column in many drilling operations. Advantages include faster drilling rates, more footage per bit, no "lost circulation" problems, and greater production recovery.

The ideal unit for sealing off around the drill string and maintaining safe pressure control is the Shaffer Combination Rotating Blowout Preventer and Stripper. It not only permits the well to be drilled safely, but also it can be adapted to be used as a casing stripper during casing operations to maintain pressure control.

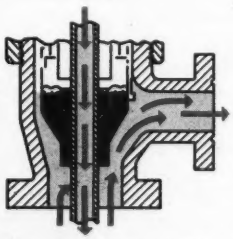
DRILLING WITH REVERSE CIRCULATION?



Reverse circulation is another of the modern drilling techniques that have definite advantages in certain types of formations. By returning the cuttings through the inside of the drill string, higher return velocities are obtained at lower pump pressures (and lower pressures on the formations). The higher velocities insure larger cuttings being returned from the formations, in many cases eliminating need for coring and thus saving rig time. Also by carrying large cuttings away faster, bit life is lengthened and drilling time is reduced.

These and other advantages make Reverse Circulation techniques worth investigating — and here again, the key to proper operation is a Shaffer Combination Rotating Blowout Preventer and Stripper to seal off the drill string and to control circulation pressure while drilling.

NORMAL DRILLING OPERATIONS?



Here again, this Preventer and Stripper insures safety and efficiency to a degree unmatched by any other type of hook-up. The unit seals off around the varying diameters of the drill string — pipe, couplings, tool joints and drill collars — adjusting itself **automatically** to the various diameters and shapes. It even seals safely around such shapes as square, hexagon or octagon kellys. And the seal is automatically maintained as long as the drill string is in the hole. No valves to operate, no levers to move — nothing to remember or forget when pressure emergencies threaten.

GET ALL THE FACTS

on the uses and design features of this unit by sending for the helpful 36 page brochure. It's free to qualified field personnel, engineers and executives!

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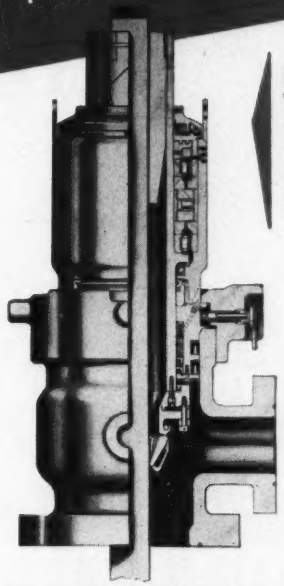

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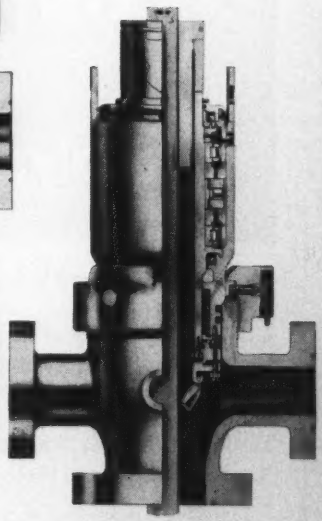

USE THE TYPE 51

for blowout protection in slim hole drilling, drilling-in, production jobs, reworking of wells and similar applications.

Shaffer Combination Rotating Blowout Preventers and Strippers are known throughout the industry for the unequalled *automatic* protection they provide against pressure emergencies. Nothing to remember—or forget—when pressure emergencies threaten, because this equipment automatically seals off around the drill string as the tools are lowered into the well . . . *and maintains this pressure-tight seal—without attention—throughout all subsequent drilling operations.*

Whether for big jobs (Type 50) or small (Type 51), both types can be used for the various applications outlined at left.

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Field Development

California Standard Starts Utah Wildcats

Wherever territory in the country hints possibilities of petroleum, there you are most likely to find Standard Oil of California.

Two Standard exploratory wells just getting under way in eastern Utah are further proof of the company's wide quest for new oil. The wells are known as Moonshine Wash Unit No. 1, about 64 miles from the town of Green River in Emery County, and Uintah and Ouray No. 1, located on the Uintah and Ouray Indian Reservation, 25 miles north of the town of Roosevelt in Duchesne County.

Moonshine Wash Unit No. 1 lies in the Southwest quarter of Section 32-25s-15e. It is geologically in the Paradox Basin, which includes the Aneth field, 110 miles to the southeast and other fields in the Four Corners area. Contractor is Mountain States Drilling Company.

Uintah and Ouray No. 1 is situated in the northwest quarter of Section 20-2n-2w and based on geology in the Uintah Basin, which includes the Red Wash Ashley Valley and other smaller fields. Kerr-McGee Oil Industries Inc. have the contract.

Canadian Bishop Successful Bidder

Canadian Bishop Oil Ltd., wholly-owned subsidiary of Bishop Oil Company of San Francisco, announces that it was the successful bidder for a 160-acre Crown Reserve lease in the Stillman oil field of Saskatchewan province, Canada. The price was $175,175.

Hedges & Mackie Sponsor Raton Play

Orris R. Hedges, who was one of the finders of the Vallecitos field in San Benito County, and Miss Helen S. Mackie, widely known in financial circles, are ready to spud their initial test in the Raton Basin, N. M.

Hedges, who in addition to his prominence in the oil industry is a widely known attorney, said that he and Miss Mackie have some 110,000 acres under lease in the Raton Basin. The first test, McDaniel-Mackie No. 1 is located on the 31,500-acre Porter block on the famed McDaniel Ranch.

The property was leased by Hedges about a year ago and since then it has been the scene of extensive geologic work.

Oil production possibilities at Raton Basin have stirred the interest of many operating organizations and just now Shell Oil Company is actively conducting a seismic study of the Hedges-Mackie ground and other land in the area.

Taylor Canyon Wildcat Listed

At Taylor Canyon and northwest of the Russell Ranch field and Chalk Mountain in Cuyama Valley, W. & K. Oil Company, Ltd., is planning to shortly be under way with an interesting wildcat well on Section 24-32n-19w. The well site is northwest of George J. Greer's Chimeneas-Arnold No. 28-24, which came in for something like 60 barrels of net oil a day from Lower Miocene. Yield failed to stand up and after a few months the project was abandoned.

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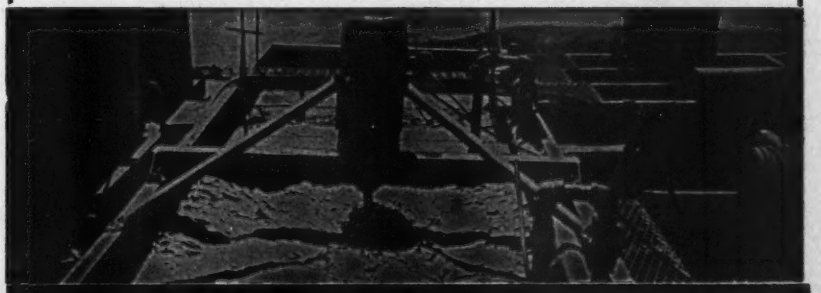

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Thornton Gas Test Drilling

Drilling is proceeding at a relatively shallow depth with the E. L. Doheny, Operator, McCormack - Williamson No. 1 wildcat on Section 3-5n-5e in the west Thornton gas area of Sacramento County.

Beehive Bend Adds New Well

General Petroleum Corporation has added another nice well in the Beehive Bend gas field of Glenn County. The latest success was recompletion of Michael-Whyler Unit No. 1 for a yield of 9,300,000 cubic feet of gas a day. Contractor was B. J. & M. Drilling Company. General made a return visit to the well some weeks ago after it had gone out of action early this year at 7843 feet. Renewed operations centered on whipstocking and redrilling to 6400 feet. General also has finaled its Sec. 49 Unit No. 2 well on Section 33-20n-2w, and Sec. 81 Unit No. 2 well on Section 10-19n-2w. They both showed more than 10,000,000 cubic feet of gas daily from 6700 and 6200 feet, respectively. Humble's Mamie H. Porter et al No. 2 test on Section 13-18n-2w in the Princeton area of Glenn County is drilling not far above target level of 8000 feet. Standard is on the move with its B. P. Goodman No. 1 wildcat, a 3700-foot test on Section 4-19n-1w in the Llano Seco area.

Colusa County Records Dusters

Humble Oil & Refining Company's exploration work in Colusa County has been punctuated by two abandonments. Wilbur H. Halsey No. 1 and Steidlmayer No. 5 on Section 3-15n-1w quit at 1750 feet and 2300 feet, respectively. In the Butte Slough area of the county, Humble is ready to drill Belle Fletcher No. 4 wildcat on Section 35-16n-1w and has staked location for Humble-Brazos-Andreatti No. 1 test on Section 34-17n-2w in the Maxwell district. Western Gulf Oil Company's Alexander No. 1 test, in the early stages on Section 34-14n-2w at Arbuckle, will go to some 7500 feet.

Mutau Flats Test Awaits Another Rig

In Ventura County's Mutau Flats sector, Marvel Petroleum Company's Cuyama-Piru No. 1 explorer on Section 28-7n-21w is temporarily idle awaiting another rig. Drilled to a total depth of 5203 feet by Gary Core Drilling Company under contract, the project is credited with some showings of oil and gas.

Saticoy Test On Production

On production at 7900 feet has gone Atlantic Oil Company's Atlantic-Standard-Walters No. 1 test on Section 29-3n-21w at Saticoy in Ventura County. The well is putting out at the daily rate of 175 barrels of 34 gravity oil a day through an 18/64-inch orifice The company's No. 2 on the section is making hole below 6000 feet or thereabouts.

Butte County Wildcat Staked

Humble Oil & Refiining Company has staked location for Parrott Investment Co. No. B-7 wildcat project on Section 10-20n-1w at Perkins Lake in Butte County. In San Luis Obispo County, Humble is nearing the spudding-in stage with its Intex-Martin-Wilcox No. 1 explorer on Section 36-32s-14e at Tar Springs.

Santa Barbara Adds Producer

Getty Oil Company's Los Alamos No. 32 on Section 6-8n-32w in the Cat Canyon area of Santa Barbara County is in from 5210 feet for a current yield of 243 barrels of 13.4 gravity oil, cutting about seven per cent, along with 22,000 cubic feet of gas daily. Orville Stanford Drilling Company guided the test well to success. In the Santa Maria Valley sector, Eddie Fisher is ready to drill his No. 1 wildcat on Section 34-10-34w, with Casner & Bentz, contractor. Northwest of the Elwood field, Standard of California has staked Edwards Estate No. 3 wildcat on Section 12-4n-30w at Las Varas.

L. B. O. D. Oil Company's well No. W-88 on Terminal Island with Fred Johnson drilling contractor. Left to right: Jim Washburn, pusher; "Tex" Fisher, driller; "Si" Rombaux, derrick; Frankie Burke, racker; C. E. Spencer, cathead; Monte Lorenz, lead tong.

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Santa Fe Springs Gains New Producer

Bandini Petroleum Company has completed its Off No. 22 well on Section 5-3s-11w near Shoemaker street and Telegraph road in Santa Fe Springs. The well came in flowing from the interval of 9300 feet and bottom at 9563 feet at the daily rate of 648 barrels of 33 gravity oil through a 20/64-inch orifice. Bandini is preparing to drill another well in the area to the new and deeper zone, uncovered by General Petroleum around the turn of the year. There are 25 well drilling jobs currently active at Santa Fe Springs.

Corona Wildcat Test On Calendar

Nick L. Notterman has staked location for his Notterman No. 2 wildcat on Section 28-4s-6w, six miles southeast of Corona in Riverside County. His No. 1 on the Section is temporarily idle at 570 feet.

Chino Hills Wildcat Staked

On Section 35-2s-8w in the Chino Hills of San Bernardino County, Westates Petroleum Corporation of San Francisco has made location for its Kraemer No. 1 wildcat test.

Dominguez Field Events Interesting

J. K. Wadley as operator has scored with a new fault block discovery with Frame No. 1 on Section 2-3s-13w at 168th Street and Avalon boulevard in the Dominguez area, Los Angeles County. Drilled to a bottom of 9797 feet in what may qualify as the 10th Callender zone, initial output was at the daily rate of more than 1000 barrels of 28 gravity oil and 1,000,000 cubic feet of gas.

Cat Mountain Well Finaled

At Oat Mountain near Aliso Canyon, Union Oil Company's Wigdal No. 2 well on Section 19-3n-16w has been completed at a plugged depth of 8255 feet for 45 barrels of net 15.6 gravity oil and 20,000 cubic feet of gas a day. Location is about one-half mile northwest of the company's Del Aliso No. 1-1, an extension well of the Wigdal sand zone.

Bridge Wildcat Going On Down

The Texas Company is deepening from 7720 feet its Texas-Union-Richardson-Earl No. 1 extension test on Section 14-3n-21w in the Bridge area of Ventura County. The well was originally completed as a new pool discovery in the closing days of 1955 for 38 barrels of 34 gravity oil and 59,000 cubic feet of gas from 7211-7720 feet. It was recompleted some weeks later for an initial output of 250 barrels a day.

Carrizo Valley Project Rigged

Carrizo Valley Oil Corporation's No. 1-31 wildcat venture on Section 13-15s-8e in the Carrizo Valley area of San Diego is rigged up and probably will be under way with the drill shortly.

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LONG BEACH - BAKERSFIELD

Midway-Sunset Well Completed

Oceanic Oil Company has completed its CWOD No. 82X-17 on Section 17-32s-23e in the Taft-Fellows sector of the Midway-Sunset field. The well, the second producer in the deeper Republic formation on the company's General American lease, came in at the daily rate of 210 barrels of net 23.3 gravity oil through a 16/64-inch choke. Opened was a 60-foot interval between 4488 feet and bottom at 4548 feet. Oceanic's CWOD No. L-1-1 test on Section 1-32-22e has been abandoned at 3940 feet.

Wheeler Ridge Wildcat Working

About halfway between fields at Wheeler Ridge and Tejon, Richfield Oil Corporation's Richfield-Mohawk No. 16-30 wildcat test on Section 30-11n-19w continues to be drilled ahead below 4000 feet. Location is on a 220-acre spread acquired from Mohawk Petroleum Corporation and M J M & M Oil Company. The main target of the test is the Miocene and there is a chance that Richfield will elect to go deeper to the Eocene. The wellsite is just west of Highway 99 and slightly less than three-fourths of a mile north and east of Richfield's KCL-F No. 52-36, completed six months ago for a new discovery on ground two miles southeast of Wheeler Ridge field.

Tunis Creek Wildcat Listed

G. A. Grober is in the preparative stage with his No. 1 wildcat project on Section 5-10n-18w, south of Tunis Creek and two and one-half miles south of production. Contract has been awarded Barnes Core Drilling Company.

Eureka Company Blocks Up Leases

Eureka Company reported that along with Lee Healy it had blocked up considerable oil and gas prospect ground in San Diego County. Lee Healy is founder of the Long Beach Oil Exchange.

Tejon Wildcat 12,000-Ft. Try

The Texas Company is all set to drill its CWOD (NCT-1) No. 1 wildcat project on Section 32-11n-19w in the Tejon area, Kern County. Designed as a 12,000-foot test to the Eocene formation, location is some 2000 feet south of Standard's CWOD No. 4-35 deep test. The latter was taken down to 12,239 feet in 1953 and plugged back subsequently for completion in the Santa Margarita oil sand zone. Drilling will be on land no great distance from Rose station.

Sunset Enter South Tapo Area

Sunset Oil Company's expansion program has accounted for the purchase of Verdi Development Company's property in the South Tapo area of Ventura County for $350,00,-000, plus an oil payment of $100,000. Located about six miles north of Santa Susana, the property comprises 800 acres which contains six wells putting out 215 barrels of 32 gravity oil a day from approximately 2400 feet. The property was the scene of a discovery by Terry Drilling Company in February of 1953. Initial yield of the finder was 720 barrels of oil a day. The land and wells subsequently changed hands several times before acquired by Verdi Development Company. Morton A. Sterling, Sunset executive vice president, said that in addition to the six wells producing there are seven others on the property, four of which will be repaired before returning to production. Sunset is currently considering an exploratory program and a test of deeper formations which are a prolific source of oil in the nearby Oakdale and Bardsdale fields. The deeper formations have yet to be tested at South Tapo.

Lost Hills Test Drilling

Digging is under 300 feet with Universal Consolidated Oil Company's Fee No. 265-32 deep test on Section 32-26s-21e in the Lost Hills area of Kern County. Contract driller is San Joaquin Drilling Company.

Atlantic Oil Company's Terminal No. 12 in the Wilmington field with Ben Owens Drilling Company handling the work. Left to right: Don Bowden, lead tong; Fred Roney, derrick man; L. L. White, driller; Russell Thomas, cathead; Cal Forehand, pipe racker.

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Temblor Ranch Wildcat Started

Intex Oil Company's Malco-Snow-USL No. 1 wildcat test southeast of the Temblor field in Kern County is under way toward objective depth of approximately 4500 feet in the Phacoides. Interest in the well, on Section 6-30s-21e, is shared with Malco Asphalt & Refining Company.

San Benito Tests Quit

In the Hollister area of San Benito County, Harry H. Magee, Operator, has, abandoned Ranch No. 1 on Section 11-12s-4e at 4685 feet, after the well tested wet. The operator also has given up Friis No. 4 on Section 13-12s-4e at 1425 feet. On Section 19-22s-5e, Magee is deepening the old Breen No. 1 well from 4591 feet.

Kern Front Well Completed

Chanslor Western Oil Development Company's No. 64 well on Section 23-28s-27e in the Kern Front field has been completed at 2160 feet and last was producing 32 barrels of 13.3 gravity oil a day, cutting 27 per cent. The Chanac was topped at 1815 feet. At Kern River, E. A. Clampitt Oil Company of Oildale has given the final touch to No. 14 well on Section 25-28s-27e at 1256 feet for a present output of 25 barrels of 12.7 gravity oil daily, cutting 40 per cent.

Belgian Fold Test Abandoned

On Section 8-30s-21e in the Northwest Belgian Anticline sector, Tidewater Oil Company's SCPC No. 63-A-B test has been abandoned at 9436 feet. Other drilling jobs active in the Belgian Anticline field include Standard's CWOD No. 16-16Y on Section 16, and Shell's AML No. 77-8 on Section 8-30-21e.

Ciervo Anticline Wildcat Listed

Intex Oil Company will drill NW-USL No. 1 exploratory well on Section 18-16s-13e, Fresno County. Location is about five miles northeast of Ciervo Anticline production and 10 miles south of gas wells on the Cheney Ranch.

Poso Creek Test Drills

Nearing objective depth of 3000 feet in Bankline Oil Company's De Pauli No. 1 wildcat well on Section 19-27s-27e and north of the Poso Creek field. The well site, in passing, is no great distance from a dry hole put down by George F. Getty, Inc.

Deepwell Ranch Project Tabled

Having found nothing of worthwhile interest to 3868 feet, Signal Oil and Gas Company has pulled out of its Signal-Thayer No. 74-16 wildcat on Section 16-26s-27e in Kern County's Deepwell Ranch sector.

Oil Creek Test Begins

With objective depth somewhere around 7000 feet, Union Oil Company's Western Gulf-Richfield-E. L. Moore et al No. 1 test is on the move in Section 31-7s-3w at Oil Creek in San Mateo County. Approximately four miles northwest of Union's original find in the area, Western Gulf's Wells-Fargo No. 1 on Section 7-8s-3w is engaged in primary activity. In the San Gregorio area, Americo Oil Exploration & Drilling Company's Amer-ic-Cabral No. 1 venture on Section 24-7s-5w was last reported digging ahead near 1500 feet.

Greeley Wildcat Quits At 12,010 Ft.

The Frank M. Taylor, Operator, Union-Kopps No. 85-30 deep wildcat on Section 30-29s-26e in the Greeley area has been abandoned at 12,010 feet. Final checks were made with electric log and dipmeter.

Manford C. Alcorn, Shell Oil Company's Pacific Coast pipe lines manager, has just celebrated his 30th year with the company.

Alcorn, who lives at 5603 West Sixth Street, Los Angeles, was presented with the traditional Shell pecten encrusted with two diamonds in recognition of this 30th anniversary.

Beginning his Shell career as a computer in the Los Angeles office in 1926, he successively held positions as division pipe line engineer, pipe line superintendent, and assistant manager of pipe lines, before being promoted to his present position about three months ago.

Born in Poseyville, Indiana, Alcorn is a graduate chemical engineer from Purdue University in the class of '23. He is married to the former Carol Jean Lowry of Eagle Grove, Iowa. The couple have two daughters, Tanya Lee, 19, and Jan Lee, 16.

Western Canada

In Saskatchewan, Sun Oil Co. has found oil in the Lampman area of the province's southeast portion in both the Charles and Mission Canyon zones of the Mississippian during recent drill stem tests. The well, which is being production-tested, is No. 13-7 Breeze, LSD 13, 7-5-5w2, one and three-fourths miles east-southeast of Lampman field, some 25 miles north of the United States border.

Mobil Oil of Canada, Ltd., has discovered oil in the upper Shaunavon zone at its Southeastern Saskatchewan wildcat, No. 20-16 Midway, LSD 16, 20-16-19w3, seven miles northwest of production in North Premier field. Tested was an 18-foot interval, which produced clean oil and oil cut mud, no water, on drillstem tests.

Gas at the rate of 9,000,000 cubic feet daily was found in the Hussar area of southern Alberta by Tennessee Gas Transmission Co. The discovery well is No. 10-1 Hussar, on LSD 16, 10-24-20w4, about 55 miles east of Calgary. The producing formation on this test was the Glauconitic sand. Also indicated as a potential producer was the basal Blairmore formation, where gas was measured at a rate of 2,890,000 cubic feet daily. The well is one and one-half miles north-northwest of a Mobil Oil of Canada, Ltd. Blairmore formation gas discovery.

Mobil Oil of Canada, Ltd., wildcat No. 16-12 Leafland, on LSD 12, 16-40-5w5, which has had earlier shows of oil in the Cardium and Viking sand horizons, recently indicated good gas possibilities, as well, in the Mississippian limestone. Gas flowed to the surface during recent tests at a rate higher than one million cubic feet per day.

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Porterville Test Abandoned

Having drilled basement in going to a total depth of 411 feet, P. D. Smith has abandoned his Boweker No. 1 wildcat test on Section 4-22s-28e in the Porterville district of Tulare County.

Hanford Wildcat 5300-Ft. Duster

The Harry C. Long, Operator, Drummond-Union No. 1-1 wildcat test on Section 1-19s-22e, Kings County has been abandoned at an even 5300 feet. Location was roughly six miles east of Goshen Syndicate's earlier test near Hanford. The Goshen well was completed a half-dozen years ago and it came in at the daily rate of 100 barrels of oil from 5244-5353. However, production failed to endure and in a few weeks it dwindled to a few barrels. Wildcatting round-and-about the Hanford area was initiated not long after the turn of the century. Most of the ventures have come up with showings, but when put to trial the wells failed to live up to commercial standard.

Rosedale Wildcat Drilling Steadily

On a lease block covering some 1400 acres in the vicinity of Rosedale in Kern County, Western Gulf Oil Company's Shellabarger-Seldon No. 1 test on Section 30-29s-27e keeps drilling ahead at a depth last reported below 8400 feet. The well, four miles west of Shell Oil Company's discovery the other month in the Lower Stevens sand, is scheduled as a Vedder test to some 10,000 feet. State Exploration Company is understood to hold a 25 per cent interest in the well.

Iverson Ranch Test Work Ready

The Texas Company is ready to put down its Texas-Iverson No. 1 project on wildcat ground in the Iverson Ranch area of San Luis Obispo County. Location lies in Section 15-27e-16e and one and one-half miles northeast of Brookline Oil Company's test well in Section 16-27s-16e on the Camatta Ranch. In the Caliente Trough sector, Shell Oil Company has walked away from its Ferguson No. 41-13 explorer on Section 13-30s-17e. Drilling stopped at 9486 feet. San Luis Obispo County also has registered another duster with Camrich Drilling Company's Franklin No. 1 wildcat. Drilled to 2616 feet on Section 13-27s-12e and four miles southeast of Paso Robles, the project tested wet. Humble Oil & Refining Company has staked location for Intex-Martin-Wilcox No. 1 wildcat on Section 36-32s-14e in the Tar Springs area.

Strand Well Going Deeper

Shell Oil Company's KCL B No. 75-12, an old producing well on Section 12-30s-25e in the Strand-Ponsucula field, is being deepened from original botton at 8320 feet. The well was completed in the Upper Stevens and now is aimed for the Basal Stevens. It has been idle for four years. Contractor on the job is Camay Drilling Company.

Personalities IN THE NEWS

Oil Men Pay Final Respects to R. B. Grainger

His many friends in the oil industry mourned the passing of R. B. "Reid" Grainger, veteran Byron Jackson Oil Tools representative, on June 10. Funeral services were held on June 12 and interment took place at Ivy Lawn Cemetery in Montalvo.

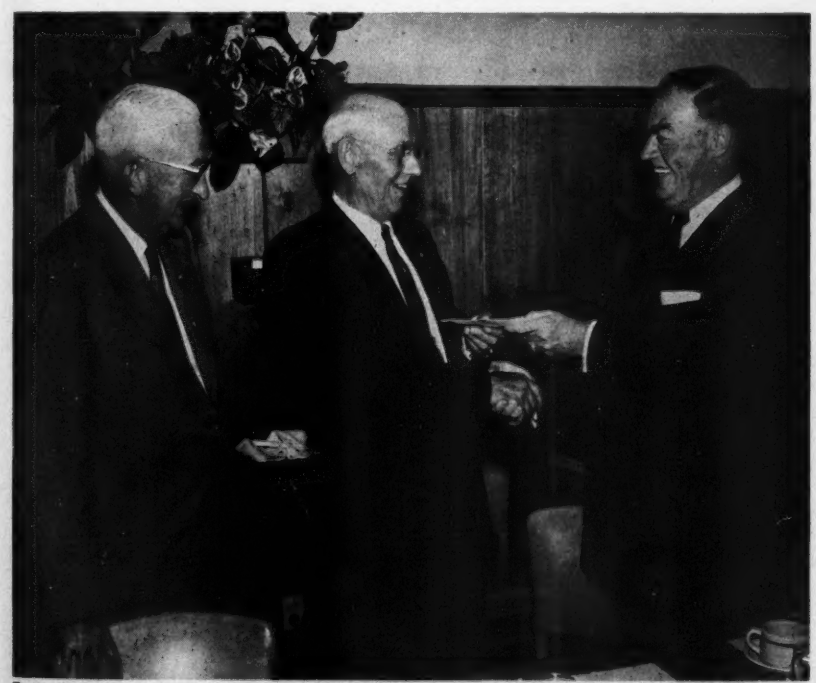
Reid, a native of Santa Paula, California, began his life in the oil business as a tool dresser for his father. Later, as a rotary driller, he took part in the Santa Fe Springs boom. One of the first drillers for the Elliott Core Drlg. Company, Reid joined Byron Jackson when that organization took over Elliott.

He served Byron Jackson in sales operations on the Gulf Coast and in California and as a BJ export Representative. Later, he was active in sales work for Byron Jackson Oil Tools in the Los Angeles Basin-San Joaquin area. Most recently he was the representative for BJ Oil Tools in the California coastal area, with Ventura as his headquarters.

On June 4, Reid was honored by forty of his associates and friends in the Byron Jackson organization at a dinner celebrating his 34 years of service with the company.

He made his home in Ojai, California and leaves a wife, Florence, and a son, Boyne.

Mary Desmond, secretary for Stark Fox of the Oil Producers Agency office in Los Angeles, has decided to taker her October vacation in the old hometown—New Orleans. She will be accompanied on the junket by her sister, Rose.



R. B. "Reid" Grainger (center), veteran Byron Jackson Oil Tools representative, whose recent death saddened his many oil friends, is shown receiving congratulations from W. C. Brooks (right) and F. C. Merritt (left) at a recent dinner given in his honor celebrating his 34 years of service with Byron Jackson.

Kinney Advances at Kaiser

William H. Kinney has been appointed assistant to the vice president, Operations, for Kaiser Steel Corporation, it was announced by George B. McMeans, vice president in charge of Operations. His office will be in the Kaiser Building, Oakland.

W. H. Kinney

Kinney, who will render administrative assistance to McMeans, was previously resident metallurgical engineer for the company, engaged in customer contact work in Northern California and the company's sales and metallurgical departments and operating divisions.

He joined Kaiser Steel in 1948, obtaining wide experience in various metallurgical responsibilities at the company's steel mill at Fontana, California. A graduate of the University of Arizona, he is a member of the American Institute of Mining and Metallurgical Engineers, the American Society for Metals, and Tau Beta Pi, national engineering society.

Kinney is a former resident of Ontario, California. He lives in Lafayette, with his wife, Shirley, and three children, Michael, Kathleen and Peter.

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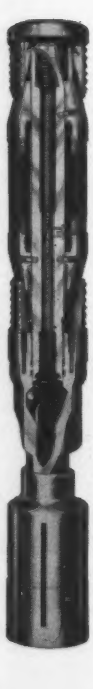

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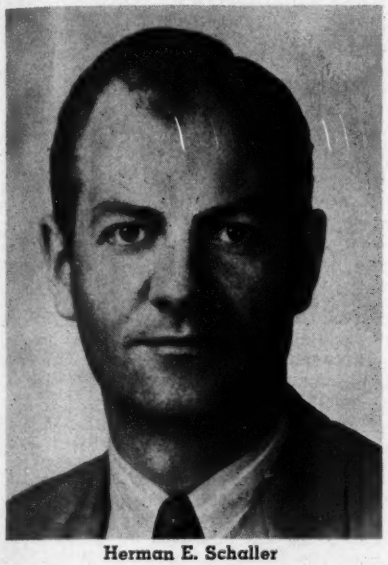
Schaller Promoted By McCullough

The McCullough Tool Company has appointed Herman E. Schaller to the position of Logging Manager of its Pacific Division according to Mr. I J. McCullough, Company President.



Herman E. Schaller

Formerly in charge of Pacific Division logging sales, Mr. Schaller will now have charge of all aspects of McCullough's Radiation Well Logging program in California. This will include supervision of field operations, procedures, training of personnel, log evaluation and continued assistance to the sales department in the analysis of logging techniques.

Holding an M. S. degree in Petroleum Engineering from the University of Southern California, Schaller has had extensive oil field experience. This includes three years as a field engineer with the Conservation Committee of the California Oil Producers Association, one year wtih The Texas Company, two years with Eastman Oil Well Survey Company and seven years with McCullough Tool Company.

Schaller has been active and held positions in the A.P.I. and the A.I.M.E. He is currently Chairman of the Southern California Section of the Petroleum Branch of the A.I.M.E.

Rapid advancements in logging techniques and in the acceptance of radioactive logging by California oil men have warranted greater emphasis being placed on this important service by McCullough Tool Company. Along with their well known Gamma Ray and Neutron Logs, utilizing the very efficient scintillation counter, there are several new developments now, or soon to be available on a commercial basis. These include the Neutron Accelerator, Scintillation Spectrometer, Caliper, Temperature and Density Logs.

Two Honored by Shell

Two Shell Oil Company's long-term employees have just marked up nearly-three-quarters of a century of service to the company, it was announced on June 11th.

Leslie J. Clisham and Leonard E. Tingey both started as clerks for Shell within two days of each other back in 1921. Tingey was a clerk in the Oilfields, California, office which was Shell's first venture in this country. Oil was shipped from Oilfields to Martinez in the San Francisco bay area for refining, and that's where Clisham was clerking.

Today the two have just celebrated their 35th year with the company and both are settled in Shell's Los Angeles headquarters. They were presented with gold Shell emblems encrusted with three diamonds each in recognition of their anniversary.

Clisham, who is now manager of crude oil and products in the transportation and supplies department at Shell, has spent his entire Shell career in California. He moved to Wilmington to help open that refinery in 1923, then went back up to San Francisco as manager of the supplies department. Later he became the pioneer of the transportation and supplies department in Los Angeles, opening that operation in 1952.

A resident of Arcadia, California, where he lives at 1608 Perkins Drive, Clisham was born in Portland, Oregon, but spent most of his youth in San Francisco. He is married to the former Lucille Ruhlen, of Pecos, Texas, and the couple have one son, Mikey-Joe, age 9.

"My work has been pretty routine," explains Clisham, "but I can tell you one thing—there has never been a dull moment in all that routine!"

Tingey, who is now supervisor of office services for Shell in Los Angeles, was born in Coventry, England, in 1897. Attending schools in England, he later moved to Canada, where he attended Queens University and saw active service during World War I as a member of the Canadian Army in France, Belgium, and Bonn, Germany.

SCOUTING THE PAST—Leonard E. Tingey (left) and Leslie J. Clisham (right) display their files representing 70 years combined experience with Shell Oil Company to Janice Freudenberg, secretary to Clisham. Tingey and Clisham started with Shell 8 years after the company was founded and have just celebrated their 35th anniversary.

Tingey has filled various assignments with the Shell treasury departments at Oilfields, Brea, Santa Fe Springs, and Los Angeles.

Active in his home community of La Canada, California, Tingey is past master of both the Crescenta Valley Masonic Lodge and the La Canada Masonic Lodge, past patron of the Crescenta Valley Chapter No. 494 Order of Eastern Star, past president of the Crescenta Valley Patrons and Matrons Association, past warden and member of the La Crescenta Episcopal Church, past president and member of the Dad's Club of Job's Daughters, Dad Advisor of the Order of De Molay, charter member of the La Canada Garden Club, member of the Father's Council of the La Canada Junior High School, member of the La Canada Chamber of Commerce and member of the La Canada Youth House.

Tingey married the former Louise C. Craig, of Warrensburg, Missouri, and the couple have two children, Richard John, 16, and Patricia Ann, 15. The family lives at 4413 Commonwealth Avenue, La Canada, California.

Herman Alber, one of the nation's top oil marketing executives, plans to retire from his official duties with General Petroleum sometime in July. Long one of the petroleum industry's very special favorites, Alber will be among those in attendance at the forthcoming Olympic Games in Australia.

California's balmy weather during recent weeks has been enjoyed by K. S. Adams of Bartlesville, Okla., Phillips Petroleum Corporation board chairman, and Mrs. Adams and their three sons and a daughter. They have been stopping at the Beverly Hills Hotel in Beverly Hills and conducting their travels by their private plane.

Highlight of the regular luncheon meeting of the Chamber of Commerce in Taft was an address by Capt. A. S. Miller, U. S. Director of Naval Petroleum and Shale Reserves.

John O. Maberry, formerly of Western Gulf in Los Angeles, and who recently returned to California from Canada, has been named president and general manager of Rosegold Uranium Corporation at San Francisco. Rosegold has programmed the drilling of three oil and gas tests on as many separate structures in Idaho.

An honorary degree of Doctor of Laws was conferred on President Frank M. Porter of the American Petroleum Institute last June 14 by Hahnemann Medical College and Hospital of Philadelphia. The API president was presented as a candidate for the degree by Robert G. Dunlop, president of Sun Oil Company, and vice president of the College's Board of Trustees.

Warren H. Dunning is a new addition to General Petroleum Corporation advertising staff at Los Angeles, according to Frank C. Meunier, advertising manager. Dunning, known as Terry to his associates, was director of advertising and public relations for Electronics Speciality Company of Los Angeles for the last two years. Earlier he was advertising manager of P. R. Mallory & Company, Inc., Indianapolis, Ind., for three years. He entered the advertising field as a member of the General Electric Company staff.

Oil Man John Green, who formerly maintained offices in Los Angeles, now makes headquarters in Santa Barbara.

President John P. Hurndall of Bandini Petroleum Company at Los Angeles has returned from Guatemela where he spent several weeks in the interest of his firm's Government exploration concession there. Just ready to leave for that country is Eddie Stroud of Los Angeles. He is public relations director for Signal Oil and Gas Company, which is represented by many thousands of acres in the Central American nation.

Appointment of Ray Faulk as export manager-sales for H. C. Smith Oil Tool Company was announced by Arthur S. Marshall, vice president-sales.

Mr. Faulk joined the company in 1946 as a sales representative in its Ventura, California, division. In 1948 he was appointed branch manager for the Fillmore, California, division, a position he has held for the past eight years. He has been a member of the Kiwanis Club for eight years and was a charter member of the API Coast Division.

John W. Chaney, 2958 Hill Street, Huntington Park, marked 30 years of service with General Petroleum Corporation on June 25.

He has been manager, excise taxes, of the company's comptroller's department since 1955. Prior to that he was sales and excise tax accountant.

Chaney joined General Petroleum in 1926 at its Vernon location.

He is secretary of the Uniformity Committee of the North American Gasoline Tax Conference, Pacific Region. He is chairman of the License Tax Committee of Western Oil and Gas Association and is a member of WOGA'S Federal and State Excise Tax Committee. He also is a member of the Petroleum Accountants Society.

Active in civic affairs, Chaney is a member of the Los Angeles Consistory, Scottish Rite; past master of West Lake Masonic Lodge; past president of Southeast Horticultual Society. He is also a member of the Los Angeles Chamber of Commerce and LA Athletic Club.

Two new members were inducted at the June 13 meeting of the Los Angeles Chapter of Nomads. Bill Brooks of Byron Jackson Tools, Inc. (left) is shown greeting Ray Elmer of Kobe Inc., new associate member while Tom Martin of R. J. Eiche & Associates (right) is about to pin the Nomads lapel insigne on Lester Evans of Emsco Mfg. Company, new regular member. Tom Martin, Ritual Master, conducted the ceremonies assisted by Bill Brooks, Sergeant-at-Arms.

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Emsco Receives Award of Merit

More than 1,584,500 man hours worked in 390 days without a lost time injury is the safety record established at the Los Angeles plant of Emsco Manufacturing Company, which has been presented with the Award of Merit from the National Safety Council.

National Safety Council Award of Merit to Los Angeles plant of Emsco Manufacturing Company being presented to Del Cox, Mayor of Huntington Park, where plant is located, to company officials. Left to right: S. F. Wiley, safety manager and J. H. Andrus, plant manager.

In accepting the award from Del Cox, Mayor of the City of Huntington Park, Emsco's Los Angeles Plant Manager, Jesse Andrus, stated that the safety program was inaugurated in 1953 by the appointment of Shop Safety Committeemen in each department and the delivery of a five-minute safety talk each Monday morning by department supervisors. Safety shoes for plant workers and the purchase of more than $6,000 in prescription and non-prescription safety glasses resulted in a reduction of more than 90% of lost time due to accidents in one year.

"We are mighty proud of this record," said Mr. Andrus, "and we hope to be able to continue to make Emsco one of the safest plants on the Pacific Coast."

Woods E. Barr, gasoline plant operator for Shell Oil Company in Ventura, has just celebrated his 30th anniversary with Shell, the company announced.

Barr, who lives at 1805 Pampas Avenue, Santa Barbara, California, began his Shell career as an oiler in Dominguez, California, in 1926. The following year he was transferred to Brea as an engineer and then went to Oilfields, California, in the same capacity. Since 1937 he has been plant operator at El Capitan, under the Ventura Shell office.

Barr's wife Pearl has been Santa Barbara County deputy clerk for the past seven years, while his daughter Marilyn is in county welfare work. The couple have one other daughter, Carolyn, 15.

Born in St. Anthony, Idaho, Barr came to California as a youngster and was graduated from Anaheim (California) High School. He is now a member of the Masonic Lodge and the National Association of Power Engineers. During his spare time he is active in the Santa Barbara Ground Observer Corps and spends much time roaming the local hills and other regions in the Western states pursuing his hobby of rock collecting.

Shell presented Barr with the traditional diamond-encrusted service emblem in recognition of 30 years of service.

R. G. Green, president and a director, and William E. Morgan, executive vice president and a director, Great Basins Petroleum Company of Denver, are in charge of operations for the Colorado firm. Both men are widely known in California and for many years were with Union Oil Company.

Dan Duncan, pictured above, is initiating a Consulting Engineering Service designed to assist Contractors in reducing their operational, drilling and maintenance of equipment costs. Duncan has had 35 years experience as driller, Field Engineering for Contractors, designing drilling equipment and acting as Consultant on drilling and equipment problems. He lives at 614 So. St. Andrews Place, Los Angeles 5; DUnkirk 9-3101.

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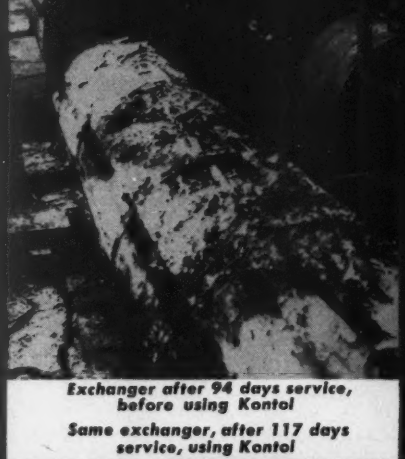

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Rocky Mountain NEWS

Colorado—Idaho—Montana—New Mexico—Utah—Wyoming—Western Canada

Montana

A new pay zone in the Wolf Springs area of Yellowstone County has been established by Atlantic Refining Co. at its well No. 13-2 Horton Estate, c se ne 13-7n-31e. The new zone is the Piper Lime, which overlies the Amsden formation throughout central Montana, and also is widely found in the Williston Basin. Atlantic's well flowed at the rate of 113 barrels of oil per day through perforations from 5,981-96 feet in the limestone zone. This flow followed acid treatment, and the operator will retreat the formation. Prior to treatment, the well was tested, recovering 5,000 feet of gas cut oil and 90 feet of slightly oil cut mud. Gas flowed to the surface in 75 minutes. Piper is a Jurassic stone, and is not usually considered as an objective. Previous production has been found at Northwest Sumatra, but the oil proved to be migrated Amsden formation oil.

A Northeast Bredette discovery has been finaled by the California Co. for an initial flow of 114 barrels of oil per day, on a 7/64-inch choke. The well is No. 1 Paulson, c nw sw 34-33n-49e, two and one half miles north of Bredette field, also a California discovery, in 1955. Production at the new strike is from MacGowan zone, in the interval 6,720-34 feet, and from Charles C zone, from 6,746-50 feet. Bredette pays from these same horizons.

Oil at the rate of 1,440 barrels per day was tested for four hours at a Musselshell County discovery in the Ivanhoe area by R. P. Oliver. Oliver ran the test at No. 3 State, c sw sw 16-11n-31e, after it had been shut in for some time. It had earlier been reported completed, with a gauge of 235 barrels of oil daily. The well is a Heath sand discovery, with perforations in the zone 3,964-78 feet.

Carbon County now holds the well depth record in Montana, thanks to a still-drilling well by Mountain States Drilling Co. and Phillips Petroleum Co. At last report, the operators were coring below 13,320 feet at the well, No. 1 NP, c lot 2, 33-9s-21e, in the Berwind area. Deepest well in the state prior to the new record-setter was a dry hole drilled in 1954 in the eastern part of the state near the town of Sidney, which went to 13,134 feet. It was bottomed in Ordovician by Sun Oil Co. The present test is scheduled as a 14,500 foot Tensleep test.

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Wyoming

An initial gauge of 1,450,000 cubic feet of gas per day was registered by Richfield Oil Corp.'s Boone Dome discovery, as it was completion tested. Richfield's well, No. 1 Northern Utilities, e½ sw se 10-35n-85w, Natrona County, is producing from both the first and third Frontier sands, with perforations from 6,152-6,215 feet and 6,950-7,065 feet. Boone Dome has produced small amounts of gas from the shallow Sharkstooth formation since 1923, but it had never been tested for deep production. The discovery is one and one-half miles southwest of Powder River.

While oil men across the country argued and hoped for an increase in crude oil prices, Stanolind Oil Purchasing Co., Indiana Standard subsidiary, cut its posted purchase prices for Wyoming sweet crudes by seven cents per barrel, effective June 1. Stanolind's action was taken to place its Wyoming take in a better market position in comparison to the Julesburg Basin crude moving from Colorado and Nebraska. Top for 40 gravity and better crude in fields posted by Stanolind is now $2.83. This is identical for field postings in Julesburg. Under the

new schedule, Wyoming sweet crudes will move to the Chicago area at $3.25 per barrel, three cents under the total price per barrel of Julesburg oil. Prices for Wyoming sour crudes were not changed by the new rates.

For the first time in the eastern part of the Powder River Basin north of Lance Creek, important oil production has been found in the Dakota formation. The find was made by True Oil Co. and its associates at Donkey Creek, in Crook County. The operators have announced completion of No. 4-B Burroughs, c sw nw 8-49n-68w, flowing 650 barrels of oil per day on a half-inch choke, and No. 3-B Burroughs, c nw nw 8-49n-68w, producing 260 barrels of oil daily. Production in the field is from a stratigraphic trap type reservoir. Two small oil wells which made some water were completed in 1953, but the latest successes are structurally lower, and are not making water. The Dakota is found at approximately 6,300 feet in the area, and the pay sand varies in thickness up to 33 feet.

Mobil Producing Co. tested gas at the rate of 1,790,000 cubic feet per day at its Heart Mountain wildcat in Park County, No. T-25-8-P, ne nw sw 8-54n-102w. Also recovered during the three-hour test were 91 gallons of condensate. This apparent discovery has been tested at various lower rates for more than a month, and the operator is continuing to test. Perforations are in the Cloverly formation, from 4,230-58 feet. The well is a west offset to the Heart Mountain Frontier discovery, which gauged 6,800,000 cubic feet daily on completion in 1947. Production has since been depleted.

Colorado

A new Mesaverde gas discovery in Rio Blanco County seems assured, with recent confirmation by the Equity Oil Co. that its No. 1 Gov't.-Sulphur Creek, nw nw sw 24-2s-98w, flowed at rates between four and five million cubic feet of gas per day. The test was from open hole below 6,869 feet. The operator may run liner to prevent caving, before testing for completion. Meanwhile, Equity has located a planned confirmation test one mile east of the apparent discovery. The No. 1 Gov't. is eight miles west of Piceance Creek field, which produces from Basal Green River formation.

In Mesa County, Pure Oil Co. tested a flow of 90,000 cubic feet of gas at No. 1 Gov't., sw ne nw 24-8s-101w, two miles northwest of Hunters Canyon field. The flow was through perforations from 1,426-58 feet. Pure will sandfracture the zone, in the Mancos formation, and retest. A previous drillstem test had recovered 240 feet of oil cut mud from the interval 1,391-1,483 feet.

Oil was recovered on a drillstem test at a northwest extension to Pierce field. The well is the California Co.'s No. UPRR-O. W. Venable, c se se 15-8n-66w. Recovery during the two and one-quarter hour test was 4,200 feet of very slightly mud cut oil and 30 feet of mud, with final flowing pressure set at 1,635 pounds per square inch. The productive interval was 9,222-97 feet, in Lyons horizon. The discovery well at Pierce field is No. 1 Priddy, in section 23, 8n-66w, completed for 317 barrels of oil per day on pump from Lyons. California completed the comfirmation well No. 1 Andre, in section 22, last month for 294 barrels per day.

G. E. Kadane's No. 1 Moran, c sw ne 30-1n-101w, Southeast Rangely area, in Moffat County, flowed gas to the surface in three minutes at the rate of 1,100,000 cubic feet per day on a drillstem test in Dakota. Tested interval was from 5,773-5,833 feet, and the test lasted for 90 minutes. A few days before, Kadane had tested a nine-foot section immediately above this interval, obtaining a flow of 708,000 cubic feet daily. Two Dakota cores in the approximate level had contained oil stained sand, with good odor. The operator is coring and drilling below the tested sections at the wildcat, six miles southeast of Rangely field.

Nebraska

M. P. Gilbert's No. 1 Barger, nw nw se 6-4n-30w, Red Willow County, gauged 198 barrels of oil per day on the pump, to become the first producer in the county. Production is from Kansas City (Pennsylvanian), in the interval 3,856-64 feet. The area is east of the Julesburg

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Lufkin Foundry and Machine Company maintains factory sales and service offices throughout the U.S. and serves Canadian oil fields through its subsidiary, Lufkin Machine Company, Ltd. at Edmonton.

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Basin proper, and should development become substantial, it could draw a good part of the operating potential built up in the basin. Last year, oil was found some 11 miles south of the No. 1 Barger, in Hitchcock County, but the well was abandoned after extensive tests. Intermittent exploration has been carried out along the Cambridge Arch north and south of Gilbert's find, but there has been no drilling in the immediate vicinity.

Casing has been run at an apparent discovery in Kimball County, Murfin Drilling Co.'s No. 1 North, ne ne nw 15-12n-54w. Basis of the projected tests was recovery of 710 feet of oil and 1060 feet of water on a drillstem test from 5,776-89 feet in D sand. There were no shows in the J sand. Murfin's wildcat is approximately one mile east of production in Phillips field.

Also in Kimball County, Strain Drilling Co. and Petroleum, Inc. have completed No. 1 State, c sw ne 16-15n-55w, for a potential gauge of 110 barrels of oil per day. Perforations are from 6,274-78 feet. It is three miles northeast of Morton field production, and one of several recent discoveries in the county.

Roy G. Woods has completed his No. 1 McCord, c sw sw 19-17n-43w. in Garden County, as a D sand discovery. Pump gauge was 80 barrels of oil and 15 barrels of water in 24 hours. Production is from the interval 3,162-3,164 feet. The well is two and one-half miles northwest of another D sand discovery, completed in January by Brinkerhoff Drilling Co. Production at the latter well has fallen considerably from its initial potential of 61 barrels of oil per day. It made 50 barrels of water with the oil on completion.

North Dakota

Cardinal Drilling Co. has an apparent discovery in Bottineau County, with the recovery of 400 feet of oil and 156 feet of heavily oil and gas cut mud at No. 1 UCLI-Sisk, se sw 1-163n-81w. The one-hour test was from 3,377-87 feet in the Charles formation, topped at 3,376 feet. The operator has set casing, preparatory to further evaluation. The wildcat is four miles south and west of North Westhope field.

Another Charles discovery in Bottineau County which will soon see completion attempts is Winona Oil Co.'s No. 1 Whitteman, sw sw 22-162n-80w, 10 miles south of Cardinal's indicated strike. A drillstem test from 3,499-3,508—the last in a series of three over approximately the same section—recovered 99 feet of slightly gas cut oil, 192 feet of heavily gas and oil cut emulsion (95% oil), 60 feet of heavily gas and oil cut emulsion (80% oil) 60 feet of gas and heavily oil cut mud (35% oil), and 98 feet of salt water. Winona has set casing and at last report was perforating the zone.

Utah

Five miles south of gas production in the Harley Dome area of Grand County, B & W Drilling Co., a Borger, Tex. firm, bailed oil at the rate of one-half a barrel of oil per hour at its wildcat in ne ne ne 31-19s-25e. The oil is being produced from the Morrison formation, which is topped at 590 feet. Tests are continuing at the indicated shallow discovery.

Three States Natural Gas Co. tested a gas flow gauged at 10,600,000 cubic feet per day open hole through two and one-half inch tubing at its eastern extension at Clear Creek gas field. Production was from Ferron formation, topped at 4,495 feet, and followed acid treatment. The operator is continuing to test the well.

At its Jacks Canyon wildcat, in Carbon County, El Paso Natural Gas Co. recovered 240 feet of slightly oil and gas cut mud from the Wasatch formation. The well is No. 5 Jacks Canyon Unit. se se ne 32-12s-16e. This test was run from 2,954-3,010 feet. A second, from 3,083-3,106 feet, recovered 10 feet of slightly oil cut mud in a half hour. The operator is running logs. In 1954, El Paso finaled No. 3 Jacks Canyon Unit, se se sw 28-12s-16e, for 72 barrels of oil per day from basal Green River.

Standard Oil Co. of California will drill a rank exploratory test well on properties in Duchesne County acquired in a Ute Indian sale. Standard's bid was in excess of one million dollars. The site is on the northern rim of the Uinta Basin. The wildcat is No. 1 Starr Flat, nw nw 20-2n-2w, and it is to be a 6,500 foot Mesaverde test. White Rock area is to the east of this location.

Idaho

A group of independent operators, under the name of Eastern Idaho Development Co., is drilling below 1,500 feet at a wildcat, No. 1 State, ne sw 21-10s-43e, in Bear Lake County. The operator is not releasing any data other than drilling depths. Drilling in this general area has moved by fits and starts for several years, with Standard Oil of California providing most of the impetus. The new wildcat is 60 miles west of production in the Big Piney area of Wyoming, and is 10 miles southeast of Soda Springs.

General Rocky Mountain

The developmental rate in the Rocky Mountain states paced the nation recently, with 23 of 41 rigs gained across the country working in the region. This occurred in the first week of June, which also registered a new high in rotary rigs operating in the Rockies for the year. American Association of Oil Well Drilling Contractors figures showed a total of 274 units active for the week, exclusive of northern New Mexico. Every state in the region reported a gain, with the exception of North Dakota, which remained the same at 18. Montana gained three units, for a new total of 46; Wyoming was up three, totalling 82; Utah gained four, bringing it to 19; Colorado was up five, to 60; western Nebraska gained seven, making a total of 45; and South Dakota now has one rig at work.

Through the end of May, 1,772 wells had been completed in Rocky Mountain states in 1956, a total appreciably higher than last year's count of 1,597 wells. The bulk of this increase has come in Nebraska and northern New Mexico. Western Nebraska shows a current count of 392 completions, compared with 270 in the first five months of 1955. Northern New Mexico saw 288 wells completed this year, against only 160 wells in the like period a year ago. Activity was down in Colorado, from 551 to 490, while Montana was up significantly, and other states held comparatively steady.

With Drilling Contractors

Never sleeping and on the job 24 hours a day, Gulf Oil Corporation has developed an "oil field watchman" to protect the purity of crude oil coming from wells. Credited with doing a job far better than possible by human inspection, the "watchman" technically is known as BS & W Monitor (BS & W. meaning basic sediment and water). It operates between the oil well tankage at the company's own wells or wells from which it is buying, and at the point where the oil is delivered to pipelines for transport.

Rosegold Uranium Company's forthcoming exploration wells in Idaho will be contract jobs. The firm, which makes headquarters in San Francisco, will drill on three structures located by Geologist Ralph Arnold of Santa Barbara.

Predictions by the nation's contract drillers and leading oil producers that by 1965 some 80,000 wells will be drilled annually in the United States is viewed as conservative by a top member of the petroleum industry. A. W. Thompson, head of A. W. Thompson, Inc., widely known Texas drilling contractor, and American Petroleum Institute production vice president, recently pointed out that "practically every major cost borne by the contractor has risen constantly since World War II . . . In all, rotary drilling costs in 1955 were 97 per cent higher than in 1941. Yet the per foot price tab passed on to the industry was four per cent lower . . . This reduction in unit cost in the face of rising costs is a great tribute to the contracting industry."

American Association of Oilwell Drilling Contractors have approved a $10,000 appropriation for education and training activities. Brad Mills, AADOC executive vice president, said "this fund, together with grants from other oil industry groups, will assure a continuing program to improve the technical skills of drilling industry employees." Half of the appropriation will be set aside for the University of Texas petroleum extension service and will be available when suitable programs are developed. The association has been a co-worker with the petroleum extension service in industry training programs since 1946. Among the current AAODC-sponsored events are the School of Drilling Technology in Odessa, Tex., and the series of conferences for drilling executives. The other $5000 will be used by the AADOC education and training committee for the association's honorariums for college instructors, and other education projects. Established in 1953, the honorarium awards have been presented to 17 petroleum engineering teachers. They were chosen "in appreciation of their work on furthering student interest in drilling careers."

E. C. (Ned) Brown, head of the Brown Drilling Company of Long Beach, currently is on an air jaunt on the other side of the Atlantic. Visits, among other interesting places, will be made in Belgium and England. Before Ned returns to California his love for baseball will take him to the Yankee Stadium in New York for a few bigtime baseball games.

Joy Manufacturing Company of Dallas, Tex., has demonstrated a rig which can drill to a depth of 5100 feet using 3½-inch drill pipe, and can reach more than 10,000 feet with 2½-inch pipe. Yet, the company pointed out, the drill is trailer-mounted and can be moved to nearly any drilling site, rigged up, and put in operation in a minimum of time.

Graham & Klassen Drilling Company will use a new National 75 rig in drilling The Texas Company's Dowling No. 1 wildcat test on Section 31-3s-9w at Placentia in Orange County. The project is designed as an 8000-foot test.

International Brown Drilling Corporation, an affiliate of Brown Drilling Company at Long Beach, has placed in operation its second rig in the Boscan field, Venezuela. Both outfits are working for Richmond Exploration Company. The second rig was taken out of service in California and entirely rebuilt and reunitized to assure its adaptability for field conditions in Venezuela before being shipped to South America Republic. The last well drilled by the rig in California was Richfield's F No. 52-36 well which opened a new and important producing horizon at Wheeler Ridge in Kern County.

Victor B. Rothschild, President of U. S. Drilling Company, a Santa Fe Springs, California oil contracting firm, has revealed that his new management team of Jack Skeehan and Jesse Parker were given a percentage of the firm at the time they joined its ranks. Jack Skeehan and Jesse Parker were appointed as Vice President and Drilling Superintendent, respectively, on February 1, 1956. At that time, each of these men was given 20% of the outstanding stock of the company and its subsidiaries.

Mr. Rothschild stated, "The firm needed 'know-how' and these men have it. It's a sound, worthwhile investment for U. S. Drilling Co."

U.S. Drilling Co. has been in the contracting business in California for the past 3½ years and operates five outfits to service the drilling requirements of the California Operators.

Jack Skeehan and Jesse Parker represent a well-balanced team insofar as experience in the contracting business goes.

B & B Pipe Expands

B & B Pipe and Tool Company of Long Beach announces the purchase of the pipe processing division of Kobe, Inc. This, according to Ches Braly, president of B & B, enlarges the scope of the firm and will permit functioning in a much wider variety of pipe operations. Mr. Braly also states that it is the ultimate intention of the organization to centralize all its facilities at a single site for the convenience of its clients.

In addition to two new perforating machines, B & B has acquired in these recent negotiations a license to use the Security flush joint threading patents. The Company will also continue to furnish the petroleum industry with pre-packed gravel liners, and the conventional types in standard sizes as well as special units built to customer specifications.

The executive staff of B & B includes Ches Braly, president, and E. W. "Al" Forrow, manager of the new division, who are well known in the California petroleum industry where they have both been active in field work for some 35 years. Others who will help direct the expanded interests of the Company are Tom Worley, sales representative, and Dick Braly, who will divide his time between sales and management, and is a part owner of the firm.

Left to right: Tom Worley, Al Forrow, Ches Braly and Dick Braly. (With Pipe Servicing Equipment recently purchased from Kobe Inc., by B & B Pipe & Tool Company).

New J&L Wire Rope Manual

A revised edition of Jones & Laughlin Steel Corporation's manual on wire rope has been completed and is now available.

This 96-page manual entitled "Wire Rope is a Machine" contains extensive information on the selection, installation, and best operating practices for wire rope.

Included in this revised edition is new material on the applications of JalKlamps and JalFlex Slings. Copies of this manual can be secured by writing: Wire Rope Division, Jones & Laughlin Steel Corporation, Muncy, Pa.

Hydril Offers Pushbutton Control of Well Pressures

When well pressure mounts to the danger point, everyone on the rig runs for safety. Nobody wants to lose precious minutes struggling with balky valves to close blowout preventers—yet the entire operation depends on closing them.

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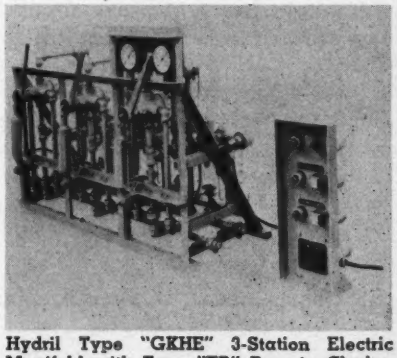

Hydril Type "GKHE" 3-Station Electric Manifold with Type "ER" Remote Closing Unit (at right).

With the Hydril pushbutton remote closing unit at the driller's position or at the exit stairway, the automatic pump accumulator and Hydril electric control manifold may be installed at a safe distance from the well—at the far end of the pipe rack, for instance. In an emergency, the driller simply pushes the button to shut down the well.

A pilot light beside the pushbutton tells the driller instantly whether the preventer is open or closed. In multiple-station installations all pushbuttons except that for the primary blowout preventer are protected with swinging covers so that the wrong button cannot be pressed accidentally. As a further precaution, pushbuttons may be used only to close the equipment; to reopen, the valve on the control manifold must be operated manually.

Operating off the rig lighting service, the Hydril electric control system does not require a separate power source.

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"Wonder what they did?"

"Don't know exactly, but they got married the next day and they named their first baby 'E Pluribus Unum.'

Two girls were, as usual, discussing men. Stated one: "Men are all alike."

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"Is your baby like his father?"

"I hope not. My husband would be furious."

He: "It was a beef stew marriage."

She: "What do you mean?"

He: "He was always stewed and she was always beefing."

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Lindy Lou: "Have you ever been a maid of honor?"

Cindy Sue: "Oh, sure . . . until I met Tom."

Barney: "Psychologists say a hysterical girl is most efficiently quieted by a firm kiss."

Billy: "And do they say how to get them hysterical?"

Waitress: "I'll have you know, sir, I'm a good girl."

Tool Pusher: "Who asked you?"

Waitress: "No one."

Tool Pusher: "No wonder you're a good girl!"

Minister: "Really, my dear, you should wait more than two months after your husband's death before marrying again."

Young Widow: "Yes, but you forget, Reverend, that he was completely paralyzed for eight months before he died."

Leadfoot Louie, our Heaven's gift to the Ladies, says: "The ways of pleasing young girlies most, are not always sanctioned by Emily Post."

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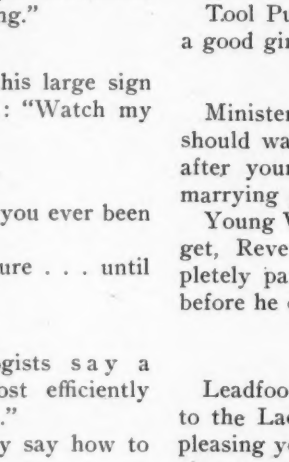

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3½" O.D. M-3 Guns are used, firing a uniform pattern of four holes per foot, and resulting in fine producers.

McCullough M-3 Bullet Perforators are called upon again and again to do the toughest jobs. Solid steel gun bodies that give great strength and permit the use of the most powerful perforating powder loads, simultaneous firing that provides a uniform hole pattern and utilizes the full power of the gun on every shot, and improved Ogival Bullets are a few of the reasons why you get deepest penetration.

For best results, call for McCullough M-3 Guns, "hardest shooting bullet perforators in the world."

Solid Steel M-3 Guns Chalk-up Amazing Record Breaker

Powerful McCullough M-3 Guns Fire 9738 Improved Ogival Bullets in One Well—One Job—Rig Time, 117 Hours

McCullough gun perforating crews, using hard shooting, deep penetrating M-3 Bullet Guns, have again broken their record for shooting the most holes in one well on a single job—and turning in a fine producer, to boot!

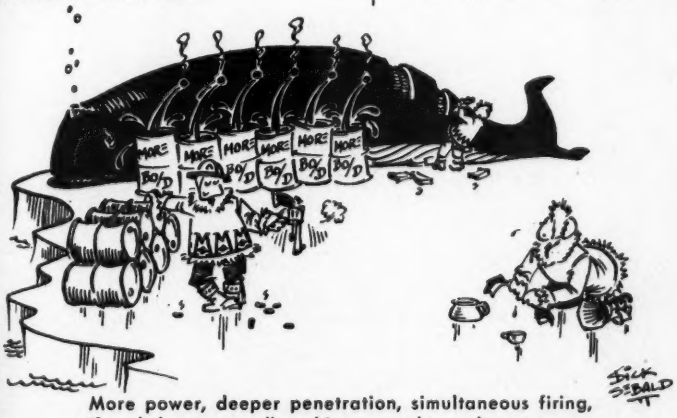
9738 improved ½" Ogival Burrless Bullets were fired in several pay zones. Total depth was 9510 feet and 7" O.D. 26 lb. and 29 lb. N-80 casing had been cemented through the productive intervals. Guns used were the 4¼" O.D. M-3 Bullet Perforators . . . the world's best!

The well started flowing after perforating began and made 1700 barrels of oil during the job. A blowout preventer had to be used to keep the well under control, indicating the extent of the problems overcome to accomplish this all-time record.

Records like this can only be established by M-3 Bullet Guns; the original solid steel bodied bullet guns that fire all shots at one time and gain deeper penetration than any other bullet gun. These guns save valuable rig time on any perforating job. On jobs over 100 holes the saving is substantial. On this record breaker the operator realized a tremendous saving; McCullough crews fired an average of 83 burrless bullets per hour.

All 9738 bullets shot in this well were improved ogival McCullough Burrless Bullets. The entire perforated zone was scraped on a single run. The scraper came out without a scratch—no damage from burrs or bullets; and the zone washed perfectly!

This entire operation was as smooth as silk—a fine tribute to the skill and efficiency of McCullough gun crews and to the excellent completion program established by the oil company's engineers.



More power, deeper penetration, simultaneous firing, uniform hole pattern—all combine to get the results you want—MORE OIL! Always specify McCullough M-3 Bullet Perforators.

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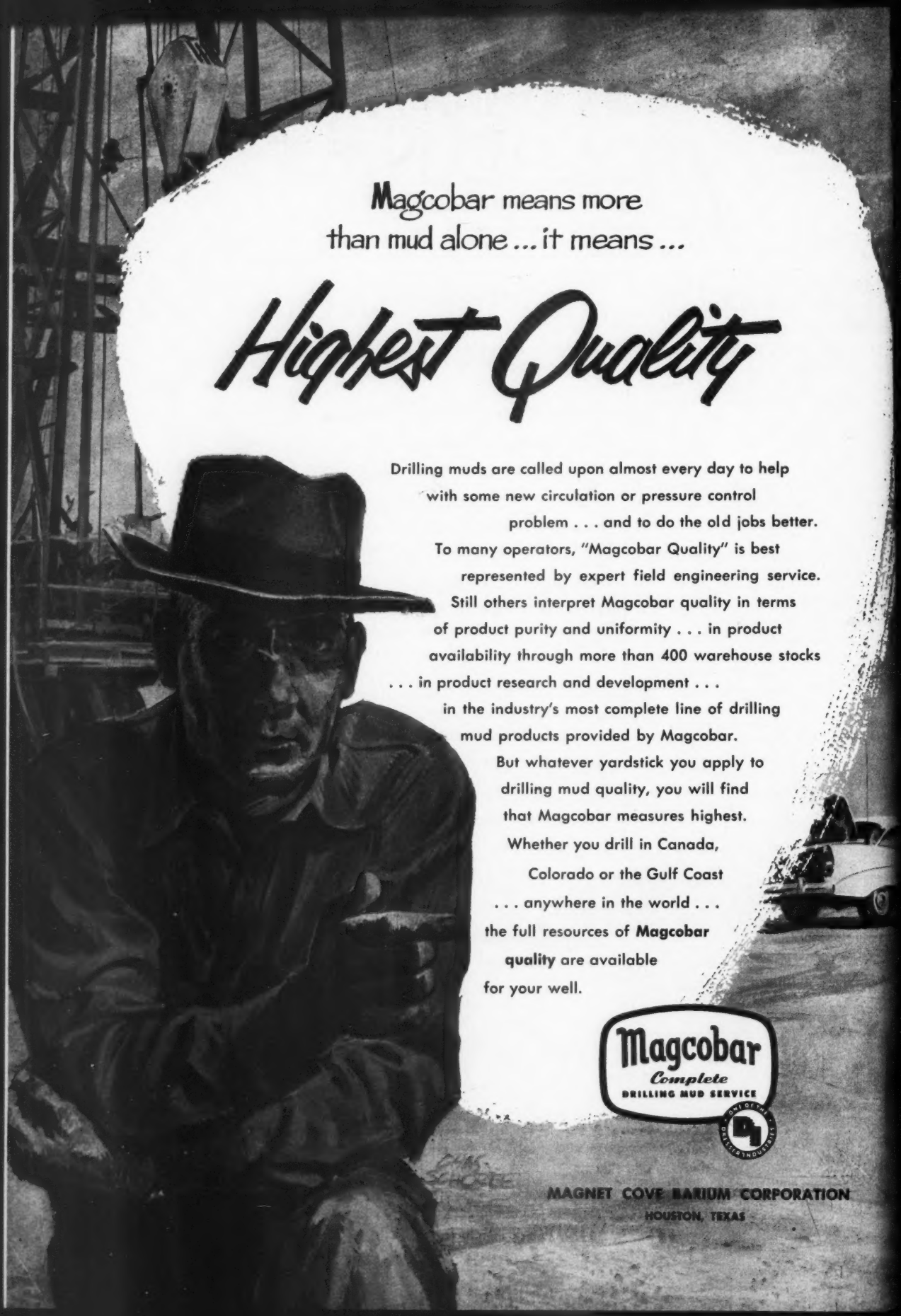

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Highest Quality

Drilling muds are called upon almost every day to help with some new circulation or pressure control problem . . . and to do the old jobs better. To many operators, "Magcobar Quality" is best represented by expert field engineering service. Still others interpret Magcobar quality in terms of product purity and uniformity . . . in product availability through more than 400 warehouse stocks . . . in product research and development . . . in the industry's most complete line of drilling mud products provided by Magcobar.

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